# M/V OSKI

# **EMISSIONS TESTS**

# **BIO-DIESEL & INLET AIR WATER INJECTION**

# FINAL REPORT TO MARAD

### PREPARED BY WALTHER ENGINEERING

## ON BEHALF OF THE S.F. BAY WTA

## UTILIZING A BLUE & GOLD FLEET VESSEL

# JUNE 26, 2002



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M/V OSKI Emissions Testing

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**Executive Summary** 

The M/V OSKI, a passenger only 12 knot ferry operated by Blue & Gold Fleet on San Francisco Bay, California, was tested for diesel engine emissions from August, 2001 until April, 2002 to determine the levels of engine emissions using normal off road diesel, 0.05% sulfur diesel, 20% and 100% soybean based biofuel. The tests were conducted on the starboard main engine underway, with and without water injection into the air inlet stream. At the conclusion of the waterborne tests a dynamometer test was conducted on the starboard engine, which had been recently removed and replaced with a low NOx engine.

The following results were observed for engine operation at nearly full power. Partial RPMs produced similar results at a rate proportional to the percent of RPM except that CO was inversely proportional.

Assuming off road diesel as a basis counted in grams per hour:

NOx increased 24 % with 100% biofuel.

NOx increased 11% with 20% biofuel blend.

NOx decreased 26% with water injection.

Water injection decreased 100% biofuel N0x by 12%.

Fuel rates changed so slightly between fuels as to be indistinguishable.

Sulfur production was a function of the sulfur in the fuel. Biofuel is reported to contain a very small amount. The diesel had less than half a hundredth of a %.

CO emissions were very low.

CO<sub>2</sub> emissions did not change with fuel change.

Biofuel produces oxygen during plant growth production via photosynthesis.

Biofuel reduces particulates by about one half.

The engine did show signs of light rust from water injection originally but did not show obvious signs of distress at the end of the test when viewed through the air ports. Some cylinder deposit cleaning was expected. A longer test run and more thorough teardown inspection would be required to determine the full effects.

Lube oil sample analysis showed deterioration of TBN and increased wear metals.

Respectfully submitted,

#### I. Introduction

Internal combustion engines operating on a diesel cycle and using diesel fuel are in use throughout the world primarily for land and sea transportation, major power production, and small-scale power generation. The diesel cycle offers advantages over the gasoline engine cycle (Otto cycle) in terms of power production and efficiency. However, due to the nature of combustion in a diesel cycle and properties of the diesel fuel itself, these engines are prone to produce high levels of pollutants in their exhaust.

The species of pollutants of greatest environmental concern are CO, NO<sub>x</sub> and SO<sub>x</sub>, which are regulated as criteria pollutants, and particles which are also regulated as criteria pollutants in the PM<sub>10</sub> and PM<sub>2.5</sub> standards. Due to the nature of the combustion process, hydrocarbons (HCs) are not a major source of pollution from diesel engines. Diesel engines produce significantly higher NO<sub>x</sub> emissions than Otto-cycle engines. The refining process to produce gasoline for Otto-cycle engines removes nearly all sulfur from the fuel, but this is not the case with diesel fuel and thus the remaining sulfur in the fuel is converted to SO<sub>2</sub> in the exhaust stream. And due to the nature of the combustion process, high levels of particulate matter (usually in the form of soot, but also in the form of soluble organic compounds, ultrafine oil particles, or sulfate particles from condensing SO<sub>2</sub> emissions) are released from diesel engines.

A testing project is presented below which investigates the effect on the four primary pollutants discussed above of replacing standard off-road diesel fuel (an EPA low-sulfur formulation) with blended bio-diesel/diesel fuel or 100% bio-diesel fuel, in a diesel engine aboard a Blue & Gold Fleet ferry vessel operating in the San Francisco Bay. The bio-diesel fuel consists primarily of processed and refined vegetable oils such as soybean oil. This fuel type is attracting attention in that it is a renewable fuel, and this testing will investigate what effects this fuel has on the emissions characterization of the diesel engine tested aboard the Blue & Gold Fleet vessel. Chemical analyses of both the standard off-road diesel fuel and the bio-diesel fuel used are provided in Appendices B & C. Additionally, a water injection system is tested with all fuel types, and at high and low pressure injection with 100% diesel fuel. Water injection is a technology aimed at reducing emissions of NOx from engines by injection of finely atomized water droplets



into the air intake of a diesel engine, thereby reducing the overall combustion temperature. The water injection system was designed to operate at an RPM of 1200 or greater. The water injection system consists of a pressure pump, accumulator, filter, water softener, pressure regulator, and a discharge line connected to solenoids and then to fine sprayers or the bilge drain. A switch on the engine throttle activates the "spray on" valve at a predetermined throttle setting. Water is sprayed at either 60 psi (low pressure injection) or 85 psi (high pressure injection) into the air inlet to the blower and mixed with intake air. When the throttle is lowered to the set switch point, the spray valve is closed and the drain dump valve is opened to spill the water remaining in the spray line so as to avoid water and hydraulic damage to the engine internals at shutdown.

After testing, oil sample analysis showed increased wear metals and oil TBN degradation. Both engines were not deemed suitable for rebuild. These engines were over normal maintenance rebuild hours prior to these tests. The generator engines ran on the same fuels but without water injection. Generator oil samples were normal. See Appendix E for an attached lube oil analysis.

The report below summarizes diesel engine gas emissions tests conducted on August 3, 2001, September 4, 2001, October 31, 2001, December 6, 2001 and March 7, 2002 aboard the Blue & Gold Fleet vessel Oski, operating in the San Francisco Bay, as well as four emissions tests conducted on April 26, 2002 on the Oski engine mounted on a water-brake dynamometer. The aim of this testing was to provide a baseline from which to compare the effects of bio-diesel blends and pure bio-diesel fuel, as well as to begin to explore the potential emissions impact of the water injection system. The following report provides an overview of the methodology and instrumentation used, as well as presenting results, analysis, and conclusions from all tests conducted. Figure 1 shows a diagram of the system and the testing inputs and outputs.

#### II. Methodology

Seven emissions tests were conducted on board the Blue & Gold Fleet vessel Oski, and four additional emissions tests were conducted on the Oski engine operating on a water-brake dynamometer. The vessel was equipped with two identical Detroit Diesel engines at port and starboard. Specifications of the engines are summarized below in Table 1. Both engines were equipped with a 7.9in diameter exhaust duct which vented on the outer hull of the vessel at the waterline. All tests aboard the vessel Oski were conducted by probing the exhaust duct at a point along the duct approximately 6ft. from the starboard engine. The duct was tapped in a direction perpendicular to the exhaust gas flow direction. The tap was a simple tee with a machined radius on the interior side of the duct, in order to prevent disturbance of the exhaust gas flow. All measurement devices were inserted perpendicular to the flow direction through the tap. For testing conducted on the water-brake dynamometer, gas emissions measurements were conducted at a point in the ducting approximately 3ft from the engine, and similarly all measurement devices were inserted perpendicular to the flow direction.

ENGINE SI	PECIFICATIONS
Detroit Diesel	12V-71NA-7122-7000
Number of Cylinders	12
Bore & Stroke – in	4.25 x 5.00
Displacement – in <sup>3</sup>	852
Compression Ratio	18.7:1
Combustion System	Direct Injection
Aspiration	Natural
Power Output – bhp	360 (at 1800r/min)
$BMEP - lb/in^2$	93.1

Table 1. Specifications of the Detroit Diesel engine model 12V-71NA-7122-7000

#### Instrumentation

Exhaust gas composition was measured by using the Enerac ® Model 3000 portable emissions analyzer manufactured by Energy Efficiency Systems of Westbury, NY. The emissions analyzer was equipped with a hand-held probe. The probe was comprised of a 12in long, 0.38in diameter heated sampling tube. The tip of the tube ended in a 1in long, 0.315in diameter sintered metal filter, designed to remove particulate matter from the gas stream. The probe body contained a small sample pump to draw sample gas through the probe tip and to deliver the sample gas at a prescribed flow rate to the sensors. The probe body also contained a silica-crystal drying chamber to remove water vapor from the gas sample. The emissions analyzer was equipped with four sensors: an O<sub>2</sub> sensor; an electrochemical NO/NO<sub>2</sub> sensor; an electrochemical CO sensor; and an electrochemical SO<sub>2</sub> sensor. The concentration of CO<sub>2</sub> and total hydrocarbons (THC) was calculated by the emissions analyzer. Data acquisition from the emissions analyzer was conducted by a laptop computer, using an RS-232 serial instrument connection, and running the LabView ® data acquisition software.



Exhaust gas velocity in the exhaust duct was measured by use of a pitot tube. The pitot tube was an S-type Dwyer Instruments pitot tube with a high pressure and a low pressure inlet. The tubing material was 316 stainless steel, with a tubing diameter of 5/16in. The high pressure and low pressure outlets from the pitot tube were connected by hosing to a combination incline-vertical manometer. The manometer used a red oil of specific gravity 0.856, capable of measuring a pressure range of 0 - 6.00 in H<sub>2</sub>O, in gradations of 0.05 in H<sub>2</sub>O. The manometer was affixed to the interior wall of the vessel to maintain horizontal alignment during testing.

Exhaust gas temperature was measured by use of a thermocouple probe. The probe was a 1/4in diameter 316 stainless steel tube sheathing a glass-fiber braid reinforced standard type-K thermocouple. The thermocouple bead was located inside the tubing approximately 1/2in from the end of the tube, in order to shield the thermocouple from thermal radiation effects. The thermocouple signal was measured by a hand-held digital thermocouple reader. A schematic of the gas emissions testing instrumentation is shown in Figure 2.

#### **Testing Protocol**

A total of eleven tests were conducted using the standard off-road diesel fuel, using a blend of 20%/80% bio-diesel fuel and standard diesel fuel by mass, using 100% bio-diesel fuel, using 100% bio-diesel fuel with a water injection system installed on the engine, and using standard off-road diesel fuel with the water injection at high and low pressures. For each fuel type, the testing consisted of varying the RPM of the engine from a minimum of approximately 600RPM to a maximum of approximately 1700RPM. This RPM range spanned the minimum-to-maximum engine speeds encountered in typical usage. In all cases, no passengers were aboard the vessel other than basic crew and testing personnel, thus it was not possible to simulate the load condition of a full passenger complement. The expected load conditions of the vessel were used to determine load settings on the dynamometer for the final emissions tests conducted. Before measurements were taken for each test, the system was allowed to reach a steady state. Steady-state conditions were determined by thermocouple and manometer measurements, and were typically several minutes at each RPM. In all test cases an insulation blanket was used to seal the tap around the probe, minimizing exhaust gas leakage through the sampling tap.

Velocity measurements were made for each RPM at steady-state conditions. The pitot tube probe was inserted with the high-pressure inlet facing the flow direction, and the low-pressure inlet facing opposite the flow direction. It was observed that once steady-state conditions were reached, minimal fluctuation in manometer pressure occurred, and no time-varying change in manometer pressure occurred. This is consistent with a hydrodynamically fully developed flow, which was expected at a large distance along the exhaust duct from the engine. The velocity probe traversed the diameter of the exhaust duct, and measurements were taken at six radial positions evenly spaced 1.2in apart along the centerline of the exhaust duct.

Temperature measurements were taken at the centerpoint of the exhaust duct for each test. A traverse across the exhaust duct diameter for each test determined that there was minimal temperature variation in the radial direction. This is consistent with a thermally fully developed flow.

Emissions measurements were taken at the centerpoint of the exhaust duct for each test with the standard diesel fuel, and at three evenly spaced radial positions 2.63" apart with the blended fuel. The traverse across the exhaust duct diameter during the

testing with blended fuel resulted in a variation of species concentrations in the radial direction that was less than 1% of the centerpoint reading. This is consistent with a wellmixed flow, and an error well below the instrument error of the Enerac. In all tests, emissions data were acquired over a minimum 2-minute period, to account for any turbulent fluctuation in the species concentrations. All species were measured simultaneously by the emissions analyzer.

Particulate emissions levels were measured by making use of a flow-aligned particulate probe inserted into the probe tap. The probe consisted of a 3in length 1/4in diameter stainless steel probe placed in the centerline of the exhaust duct. The particulate probe was connected in-line with a quartz particulate filter and a vacuum pump drawing the sample through a stainless steel ball rotameter. The rotameter valve was kept fully open, thus the rotameter acted strictly as a flow-measuring device without providing flow control. Flow rate was set by the vacuum pump and any pressure drop across the system. The rotameter was used as a means of monitoring the actual flow rate across the filter, which provides a means of correcting data at varying RPM and fuel type so that comparison can be made. The filter was allowed to accumulate particulate matter for a given period of time, typically 15min. Particulate mass measurements are made by comparing the filter weight before and after insertion into the exhaust stream. This method is not capable of distinguishing particle size distribution, but will give an indication of total particulate mass production rates in the exhaust stream, allowing for comparison of the particulate production for each of the fuel types tested and the water injection system. A schematic of the particle measurement system is shown in Figure 3.

As shown in Figure 3, the exhaust was drawn across the filter by use of a 1/3 horsepower vacuum pump. The dual sealed chamber design of the pump prevented any contamination of the exhaust stream with pump oil or other residue. A shut-off valve provided a means for regulating flow times.



#### III. Analysis and Results

Emission results are presented in three methods. For ease of comparison between various fuel types and the water injection system, gas-phase emissions data needs only to be in concentration form, since differences in mass flow rates between various fuel types are not significant. Secondly, to analyze the impact of these gas-phase emissions, results must also be presented for emissions production rates on a gram per hour basis. This second method makes use of pitot tube and thermocouple measurements to calculate a mass flow rate and thereby calculate the mass production rate of pollutants. Finally the third method reports the particle measurements on a mass production rate basis.

#### **Concentration Format Results**

Results are presented below for concentrations of pollutants in the exhaust stream as a function of the engine RPM. It should be noted that pollutant concentrations are, in







reality presented as a function of RPM, since load and RPM cannot be varied independently (except in dynamometer testing, however these tests only simulated load and RPM conditions of tests conducted aboard the vessel). Figures 4, 5, 6, and 7 present results for  $NO_x$ , CO, CO<sub>2</sub> and SO<sub>2</sub> emissions respectively, for all fuel types tested as well as 100% bio-diesel with water injection and standard off-road diesel with water injection. Data presented for standard off-road diesel is an estimation based on dynamometer tests conducted. Emissions measurements are sensitive to load conditions, and some variation in load conditions was encountered during the baseline standard off-road diesel fuel tests, adversely affecting this data set. At this time, the original Oski engine was not available for testing on the vessel while underway. Thus the dynamometer tests were used to provide data for the baseline case. The estimated data is marked in Figure 4 by dashed lines. Figures 8 and 9 focus on NOx and CO emissions respectively from tests with and without water injection using standard off-road diesel.

All concentration results are shown with a standard error of 2% of reading. This is derived from measured instrument error of the Enerac once factory calibration has been performed. Calibration was performed on the instrument prior to all testing. The standard deviation of the time-dependent measurements was taken as an additional error for concentration measurements. However, in all cases the standard deviation of the measurements was substantially less than the instrument error of 2% of reading.

The results for NOx concentrations clearly show an increase in NOx concentration with increasing engine RPM, most likely as a result of increased cylinder temperature driving thermal NOx formation. The 100% bio-diesel case shows higher NOx formation at higher RPM than comparable standard off-road diesel cases. This is consistent with research findings that bio-diesel combustion in direct injection engines produces higher NOx levels than standard diesel fuel. The results show little difference between the 20% bio-diesel blend and the 100% bio-diesel blend. Finally the effect of the water injection system is to reduce NOx concentrations at the higher RPMs at which it is activated. The reduction in NOx using standard off-road diesel is approximately 20% at the 1200 RPM operating point, and approximately 25% at peak RPM.

An examination of the CO emissions results shows that CO concentrations decrease with increasing engine RPM for all fuel types and systems tested. This is consistent with expected behavior since at higher engine RPM cylinder temperature is increased, and there is considerable excess air in the diesel exhaust. A comparison between the 100% diesel fuel and the 20% bio-diesel blend shows very similar CO traces, with increased CO emissions in the case of the blended fuel at a middle RPM. With 100% bio-diesel fuel, the peak CO concentration at the lowest RPM tested is significantly greater than the comparable peaks for either the 100% diesel or blended fuel cases. With water injection, the peak CO concentration at lowest RPM is reduced in comparison to the 100% bio-diesel fuel without water injection. However, the effect of water injection is to spread the CO emissions over a greater RPM range, with non-zero values at all RPM settings tested. This is also true for standard off-road diesel with water injection – peak CO concentration at lowest RPM range, with comparison – peak CO concentration at lowest RPM range.

 $CO_2$  emissions are consistent over a wide range of RPMs for all fuels tested.  $CO_2$  emissions are a proxy for measuring the completeness of reaction of the fuel and air, and indicate that all of the bio-diesel fuels (including 100% bio-diesel with water injection) as

well as the standard off-road diesel demonstrate similar completeness of reaction.  $CO_2$  emissions may be expected to vary between the bio-diesel test cases and the standard off-road diesel, due to the varying carbon content by mass of the two fuels. However, with the high dilution factor in a lean-burning direct injection engine, this effect is expected to be below measurability.

Finally, examination of  $SO_2$  emissions shows that they are smaller than any other pollutant. Sulfur has as its only source impurities in the fuel. Most sulfur in the fuel is likely to be emitted directly from the exhaust duct as  $SO_2$ . Thus sulfur can be analyzed through a simple mass balance on the fuel sulfur content. Chemical assay of the biodiesel fuel used indicates an expected sulfur content of 0.0024% by mass, and with the considerable dilution of diesel exhaust would lead to sulfur content below the measurability of this testing methodology. The standard off-road diesel used was a low sulfur variety, with similarly low sulfur content. See the appendix for an analysis of the standard off-road diesel fuel as well as the bio-diesel fuel. Any variance from the expected sulfur content is observed as direct  $SO_2$  emissions as shown in Figure 7.

#### Mass Production Rate of Pollutants

Results and subsequent analysis are presented for emissions measurements on a gram per hour basis and for flow rate measurements. Pitot tube pressure measurements were averaged for all 6 points across the tube diameter to obtain an average pitot tube pressure. This pressure was then correlated to an exhaust gas velocity using calibration charts provided by Dwyer Instruments. The calibration corrected for exhaust gas temperature, barometric pressure and relative humidity. The velocity then allowed for the calculation of the mass flow rate of exhaust gas for each test, according to the formula:

$$\dot{m}_{exhaust} = \rho_{exhaust} v_{exhaust} \pi (D^2_{duct} / 4)$$

where  $\rho$  is exhaust density, v is exhaust velocity and D is the duct diameter. The exhaust gas density is calculated from the known species compositions, gas temperature and pressure using an ideal gas analysis. The mass flow rate of the exhaust gas is then used to calculate the production of NO<sub>x</sub>, CO and SO<sub>2</sub> species on a gram-per-hour basis according to the formula:

$$\dot{m}_{species} = C_{species} \left( \frac{MM_{species}}{MM_{exhaust}} \right) \dot{m}_{exhaust}$$

where C is the species concentration in ppm, and MM is the species and exhaust molecular mass.

In addition to mass production rates on a gram per hour basis, emissions measurement results are calculated on a gram per brake horsepower per hour basis. This is done by dividing the mass production rates by the brake horsepower, for each operating point. Brake horsepower was obtained by direct measurement from the dynamometer testing, and operating points not tested on the dynamometer were then interpolated through a least-squares fit to the curve of power versus engine RPM. Brake horsepower could also be measured through a carbon balance on the exhaust emissions to determine fuel flow rate, through the propeller curve supplied by the engine manufacturer, or through engine rack position. These alternative methods were either unavailable or prone to producing a greater error than direct measurement by the dynamometer.

	MASS	S PRO	DUCTI	ON RATES	<b>SOF G</b> A	AS EMISSI	ONS	
Test	RPM	Bhp	CO (g/hr)	CO (g/bhp-hr)	NOx (g/hr)	NOx (g/bhp-hr)	SO <sub>2</sub> (g/hr)	SO <sub>2</sub> (g/bhp-hr)
100% Diesel	Baseli	ne Test	S					
1	641	23.9	175.00	7.33	713	29.9	0.00	0.00
2	881	37.4	33.00	0.88	1329	35.5	0.00	0.00
3	1208	78.6	0.00	0.00	2573	32.7	0.00	0.00
4	1565	172.5	0.00	0.00	5188	30.1	0.00	0.00
Extended	1660	208.9	0.00	0.00	5962	28.5	0.00	0.00
20/80 Bio-die	esel/Die	esel Ble	end Test	S				
1	630	23.5	154.10	6.57	951	30.5	6.57	0.28
2	863	36.0	57.45	1.60	1366	37.9	0.00	0.00
3	1170	72.0	0.00	0.00	2399	33.3	0.00	0.00
4	1660	208.9	0.00	0.00	6687	32.0	0.00	0.00
100% Bio-di	esel Te	sts						
1	590	22.1	26.38	11.80	694	31.5	27.24	1.23
2	903	39.2	16.43	0.42	1455	37.1	8.04	0.21
3	1290	94.9	0.00	0.00	3456	36.4	0.00	0.00
4	1660	208.9	0.00	0.00	7369	35.3	0.00	0.00
100% Bio-di	esel wit	th Wate	er Injecti	ion Tests				
1	600	22.4	166.21	7.42	629	28.1	38.04	1.70
2	860	35.8	228.34	6.38	1312	36.7	0.00	0.00
3	1205	78.1	72.34	0.93	1978	25.3	0.00	0.00
4	1662	209.7	71.84	0.34	6655	31.7	0.00	0.00
100% Diesel	with L	ow-Pre	ssure W	ater Injectio	on Tests			
1	637	23.7	182.45	7.69	704	29.7	0.00	0.00
2	889	38.0	51.06	1.34	1485	39.0	0.00	0.00
3	1201	77.3	31.53	0.41	1916	24.8	0.00	0.00
4	1560	170.7	0.00	0.00	3940	23.1	0.00	0.00
Extended	1660	208.9	0.00	0.00	4592	22.0	0.00	0.00
100% Diesel	with H	ligh-Pre	essure W	ater Injection	on Tests	<b>.</b>		
1	623	23.2	119.68	5.16	798	34.4	0.00	0.00
2	886	37.8	70.73	1.87	1428	37.8	0.00	0.00
3	1193	75.9	24.29	0.32	1997	26.3	0.00	0.00
4	1563	171.8	0.00	0.00	3848	22.4	0.00	0.00
Extended	1660	208.9	0.00	0.00	4439	21.2	0.00	0.00

# Table 2. Time-averaged emissions measurements for the baseline testing, using 100% standard off-<br/>road diesel fuel

Results of the time-averaged emissions measurements for all relevant species are presented below in Table 2 for the baseline emissions testing, for the blended fuel emissions testing, for the pure bio-diesel emissions testing, for the bio-diesel fuel with water injection emissions testing, for the standard off-road diesel fuel with low-pressure water injection emissions testing. Results in Table 2 are presented both in the format of mass production rates (g/hr) and mass production rates per brake horsepower of the engine (g/bhp-hr). These results are the average of a 5-minute measurement period for each test condition at the centerpoint of the exhaust duct.

In all test cases considered, it is observed that NOx production on a gram per hour basis is increased with increasing engine RPM under the given load conditions. This would point strongly to thermal NOx as the major NOx production mechanism, consistent with research findings on NOx production in diesel engines. It is also observed in all test cases that CO production on a gram per hour basis decreases with increasing engine RPM, potentially due to the increased engine temperature allowing for more complete combustion. With the bio-diesel fuel blends and pure bio-diesel, some SO<sub>2</sub> production is observed. The SO<sub>2</sub> production is always greatest at low RPM, since at higher rpm the percent concentration of the SO<sub>2</sub> in the exhaust stream drops below the lower detection threshold of the portable emissions analyzer.

A comparison between the baseline test cases and the fuel blend and pure biodiesel test cases shows that CO emissions are generally reduced for the bio-diesel fuel test cases relative to the baseline test cases. The peak CO production rate, which occurs at lowest RPM, is higher in the baseline case (at 175 g/hr) than the blended fuel case (at approximately 154 g/hr).

An assessment of the NOx production rates on a gram per hour basis in both the bio-diesel fuel test cases and the baseline test cases shows that at low RPMs no significant difference is seen between NOx emissions in the two test cases. At mid-range RPMs and high RPMs the bio-diesel and blended cases show greater NOx production than the standard off-road diesel, becoming significantly larger at peak RPM. At high RPMs, for all fuel types, water injection has a significant impact on NOx production rates. A comparison of NOx production using standard off-road diesel with and without water injection shows that water injection reduces peak RPM NOx production by 25%. No significant difference is seen between high and low pressure water injection for the standard off-road diesel. A comparison for the bio-diesel cases with and without water injection shows a small reduction of only 9.7% with water injection. It is believed that at the time of testing the bio-diesel cases with water injection, better modulation of the water injection system could have benefited NOx emissions. Better modulation was achieved in later tests.

The comparison between the pure bio-diesel case and the bio-diesel with water injection indicates that a greater CO production is spread over a wider range of RPM. This is consistent with the reduction in peak combustion temperature caused by the water injection. However, the effect on NOx is a clear reduction in NOx production in the water injection case, versus the pure bio-diesel without water injection. This indicates that the water injection is effective at reducing cylinder temperatures sufficiently to impact NOx production.

An assessment of the CO production rates on a gram per brake horsepower per hour basis shows again that for all tests CO production rates decrease with increasing engine RPM. A similar comparison between pure diesel test cases and bio-diesel test cases can be made on a gram per brake horsepower per hour basis as for a gram per hour basis.

An assessment of the NOx production rates on a gram per brake horsepower per hour basis shows that the peak NOx production on this basis typically occurs at the midrange RPM operating point of approximately 800-900 RPM. This point combines the highest NOx production rate with lowest brake horsepower of the engine. All results show that NOx production per brake horsepower per hour decreases from the peak value with increasing engine RPM. This indicates that horsepower is increasing more rapidly than NOx production with increasing engine RPM. In all bio-diesel test cases, NOx production is greater at every operating point than pure diesel test cases on a gram per brake horsepower per hour basis, with an average increase of 11% for bio-diesel test cases than for pure diesel test cases. For pure diesel test cases, the effect of water injection is to reduce average NOx production per brake horsepower per hour by approximately 23%. For bio-diesel test cases, this average reduction is smaller at approximately 20%. Figure 10 shows NOx production rate on a gram per brake horsepower per hour basis with increasing engine RPM. Figures 11 and 12 show this same comparison for CO and SO<sub>2</sub> emissions.





#### **Particle Measurement Results**

Results are presented for particle mass production rate measurements. Tests have been conducted only with standard off road diesel, and 100% bio-diesel fuel, with and without water injection for both fuels.

In order to calculate particle mass production rates in the sample line system, the total mass of accumulated particulate matter on the filter is divided by the time of filter exposure to the exhaust stream. This sample line particle production rate is then multiplied by a scaling factor which is the ratio of the total engine exhaust mass flow rate to the sample line mass flow rate. This calculation is summarized in the following expression:

$$\dot{m}_{PM} = \left(\frac{\Delta m_{filter}}{\Delta t}\right) \frac{\dot{m}_{exhaust,total}}{\dot{m}_{sampleline}}$$

where  $\Delta m_{\text{filter}}$  is the mass of particulate matter accumulated on the filter,  $\Delta t$  is the duration of filter exposure,  $\dot{m}_{exhaust,total}$  and  $\dot{m}_{sampleline}$  are the exhaust and sample line mass flow rates respectively. The sample line rotameter is used to meter sample line mass flow rate, and the pitot tube exhaust gas velocity measurements are used to calculate exhaust mass flow rate, as described above. This method does not speciate the types of particulate matter accumulated on the filter, but the nature of the particulate matter is expected to be similar to that from a standard heavy-duty diesel engine – namely, solid carbon particles (soot); soluble organic fraction (SOF); sulfates due to the presence of any sulfur in the fuel; and engine oil particles. Furthermore, this method does not give an indication of particle size distribution, which would require a measurement methodology beyond the scope of this study.

Table 3 shows a summary of the results. Similarly to the gas emissions results, the data is presented on both a gram per hour basis and a gram per brake horsepower per hour basis. Results show that mass production rates of particulate matter on a gram per hour basis increase with increasing engine RPM for all test cases. This increase is driven largely by the increase in mass flow rate of exhaust with increasing engine RPM. At the highest RPM operating point, mass production rates are significantly higher than at all previous RPM operating points. This inconsistency in the data is attributed to water damage of the quartz filter, as seen in visual images of the filters shown below. However, no attempts were made to remove water from the sample prior to exposing the sample to the filter. Any drying would influence the composition of the particulate matter in the sample line, and therefore further influence the total mass of particulate matter measured on the filter. It is concluded that the particulate matter measurement methodology used here will not be effective for exhaust samples containing high water vapor content. On a gram per brake horsepower per hour basis, particulate matter production rates are seen to decrease with increasing engine RPM, with the exception of the highest RPM operating point. As noted above, the high filter weight caused by water contamination, influences the particulate matter production rate at this operating point.

	PAR'	TICULATE	MATTER PRODUCTI	ON RATES
	Test	RPM	PM Production Rate	PM Production Rate
			(g/hr)	(g/bhp-hr)
100% Dies	el			
	1	641	27.8	1.17
	2	881	28.4	0.76
	3	1208	62.9	0.80
	4	1565	202.7	1.18
100% Bio-	Diesel			
	1	590	13.9	0.63
	2	903	19.2	0.49
	3	1290	29.7	0.31
	4	1660	105.7	0.51
100% Dies	el with	Water Injecti	on	
	1	623	30.3	1.28
	2	886	35.9	0.94
	3	1193	56.6	0.73
	4	1563	201.9	1.18
100% Bio-	Diesel	with Water In	jection	
	1	600	14.3	0.64
	2	860	20.1	0.56
	3	1205	48.0	0.62
	4	1662	108.3	0.52

 Table 3. Particulate matter mass production rates on a gram per hour and gram per brake horsepower per hour basis

Figure 13 shows a graphical representation of the particle emissions measurement results. It can be observed in a comparison between the standard off-road diesel and the 100% bio-diesel fuels that the bio-diesel case shows significant reduction in particulate matter production rates. This is consistent with ongoing research findings that show significantly reduced particulate matter emissions from combustion of bio-diesel fuel in direct injection engines. The reduction in particulate matter mass production rates between standard off-road diesel and 100% bio-diesel is approximately 54% as an average of all operating points. A similar reduction of approximately 60% is seen in a comparison between the standard off-road diesel and 100% bio-diesel cases with water injection. The overall effect of water injection is to raise the particulate mass production rate slightly. This is an indication that the lower cylinder temperatures expected with water injection may increase the unburned hydrocarbon loading, which may subsequently serve as a precursor in soot formation.

Figure 14 shows digital images of the quartz filters after exposure to the exhaust stream. As can be seen, the lowest RPM for each of the two testing configurations displays the darkest filter. This is a strong indication that at this RPM, particle concentrations in the exhaust stream are highest.





#### **IV** Conclusions

A testing methodology has been proposed and demonstrated for determining emissions from a marine diesel engine aboard the Blue & Gold Fleet vessel Oski. Tests were conducted to determine emissions of NOx, CO, SO<sub>2</sub>, and particulate matter on a concentration and mass production basis. The effects of varying the fuel from the standard off-road diesel fuel to a processed vegetable-based bio-diesel fuel, and of the addition of a water injection system with both fuel types, are explored.

Results show that the effect on emissions of switching to a bio-diesel fuel is to increase NOx production, particularly at peak engine RPM. This result is shown in both the concentration format data and the mass production rate data. The bio-diesel fuel displays improved peak CO emissions over the standard off-road diesel fuel, but spreads CO emissions over a wider RPM range than the standard off-road diesel. However, for both fuels the overall CO production is small compared to NOx production levels. The most pronounced effect on emissions of bio-diesel combustion is the reduction in particulate matter production. Particle mass production rates with bio-diesel fuel are only 50 - 60% of those measured with standard off-road diesel fuel.

A water injection system has been tested with all fuel types. The effect of the water injection is to reduce NOx emissions at engine operating conditions of 1200 RPMs or higher, at which point the water injection system is activated. The reduction in NOx at

these high RPM operating conditions varies from approximately 10% to 25%. Higher percent reductions are seen with standard off-road diesel fuel than with the bio-diesel fuel. No significant adverse effect is seen on the CO production or particulate matter production with the water injection system. The reductions in NOx production from the water injection system are significant, and could potentially be substantially increased by a better control scheme for the water injection. Further testing would be required to determine optimal operating conditions for the water injection system. It should be noted that hydrocarbon measurements – expected to be insignificant for diesel engines using both fuel systems tested – become more significant as water injection is increased. Any future testing of an optimized water injection system would require a hydrocarbon emissions measurement system. This may also apply to colder after-cooler circuits in the future.

The results presented here show the impact of both the fuel system and water injection system on emissions from a marine diesel source. These results are intended for use in determining the impact of these modifications on emissions, and to aid in planning for emissions reduction in future engine systems.

### V. Appendices

#### Appendix A

The figures below are images from testing conducted aboard the Blue & Gold Fleet vessel Oski, showing the instrumentation used as well as images of the setup in the exhaust duct.





Test Equipment and Logger



Particulate Trap and Filter/Dryer



Engineer Amnon in a tight place



Engineer w/ Stopwatch collecting samples



Filling Hydrocarbon test bag for lab test



Particulate samples, new and collected



Water Injection Controls



Water spray nozzles in intake



Water supply conditioner

#### Appendix B

Copy of fuel analysis conducted on the standard off-road diesel fuel used in this testing

### G.P. Resources, Inc.

Fuel Specifications May 25, 2000

Marketing and Supply Technical Support and Development

LOW SU	LFUR EPA BASIC SPECIF	<b>DIESE</b>	L (RED)	
SPECIFICATIONS/UNITS	METHOD ASTM	(RAI LIN MIN	NGES) MITS MAX	TYPICAL
<u>COMBUSTION</u> Cetane No. Gravity, deg. API Specific Gravity Ash, wt %	D613 D1298 D1298 D482	40 30	(45) (35) 0.8762 0.01	42 33 0.86 0.001
<u>VOLITILITY</u> Distillation, deg F 90% recovery End Point	D86		650	603 629
<u>FLUIDITY</u> Cloud Point, deg F Winter (Nov-Mar) Pour Point Summer (Apr-Oct)	500, 2386 ( 1) D97		5 10	0 0
Winter (Nov-Mar) Viscosity @ 104F, cSt	D445	1.9	-20 4.2	-25 3.9
<u>CLEANLINESS &amp; PURITY</u> Water & Sediment, wt % Color	D1796		0.05 4.0	Trace 1.5
CORROSIVENESS Total Sulfur, wt %	D129, D1552		0.05	0.04
<u>SAFETY</u> Flash Point, deg F	D93, D3828	140		170
ADDITIVES Red Dye B, ppm (Supplied b	y G P)	25		25

Attachment A

#### Appendix C

Chemical assay and specifications for bio-diesel fuel used. Reproduced from report published for the U.S. Department of Energy (DOE) by the National Renewable Energy Laboratory, DOE/GO-102001-1449, revised September 2001.

FUEL PROPERTY	DIESEL	BIODIESEL
Carbon monoxide	-43,2%	-12.6%
Fuel Standard	ASTM D975	ASTM PS121
Fuel Composition	C10-C21 HC	C12-C22 FAME
Lower Heating Value, Btu/gal	131,295	117,093
Kin. Viscosity, @ 40°C	1.3-4.1	1.9-6.0
Specific Gravity kg/l @ 60°F	0.85	0.88
Density, lb/gal @ 15°C	7.079	7.328
Water, ppm by wt.	161	.05% max
Carbon, wt.%	87	77
Hydrogen, wt.%	13	12
Oxygen, by dif. wt.%	0	11
Sulfur, wt.%	.05 max	00024
Boiling Point °C	188 to 343	182 to 338
Flash Point °C	60 to 80	100 to 170
Cloud Point °C	-15 to 5	-3 to 12
Pour Point °C	-35 to -15	-15 to 16
Cetane Number	40 to 55	48 to 60
Autoignition Temperature °C	316	
Stoichiometric Air/Fuel Ratio, wt./wt.	15	13.8
BOCLE Scuff, grams	3,600	>7,000
HFRR, microns	685	314

#### Appendix D

Engine performance curve for Detroit Diesel 12V-71 marine engine, reproduced from Detroit Diesel Corp. publication.



### Appendix E

A lube oil analysis performed on the main engines after engine testing was completed is included.

| Low - Starbord Main Figure         Figure <th>4</th> <th>A</th> <th>С</th> <th>D</th> <th>E</th> <th>F</th> <th>G</th> <th>Н</th> <th>Ι</th> <th>J</th> <th>L</th> <th>М</th> <th>Ν</th> <th>0</th> <th>Ρ</th> <th>Q</th> <th>R</th> <th>S</th> <th>U</th> <th>Х</th> <th>Y</th> <th>Ζ</th> <th>AA</th> <th>AB</th> <th>AC</th> <th>AD</th> <th>AE</th>  
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  | L  
  | М  | Ν  | 0  
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  | 1817   | 638  | 5030  | 246  
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  | 1907   | 632  | 5061  | 230  
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  | 1656   | 588  | 5088  | 12   
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| 40   | 7.6  |
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  | 1593   | 591  | 5095  | 20   
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  | 1616   | 760  | 5172  | 96   
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  | 1767   | 659  | 5187  | 110  
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  | 1692   | 436  | 5259  | 183  
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| 30       07-Dec-01       72       4       1       3       1       5       1176       1383       1443       5522       206       <2       1.1       <2       1.2       1.2       1.2       1.3       13   
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  | 30   | 07-Dec-01   | 72   | 4  | 1   | 3   | 11  
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   | 1246  | 1440  
  | 1869   | 527  | 5311  | 235  
   | <2  | 0.1  | < 0.2  | 14.1  
| 40   | 7.4  |
| 30         30         30         1         1         7         2         0         1         1         7         1         1         7         1         1         7         1         1         7         1         1         7         1   
  | 33   | 20-Dec-01<br>10- Jan-02   | 32   | 2  | 1   | 2   | 0   
  | 2  
   | 4   | 0.1  | 17   
  | 3  | 157  | 10   
   | 5   
   | 1256  | 1470  
  | 2326   | 221  | 5342  | 28   
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  | 34   | 21-Jan-02   | 45   | 2  | 1   | 1   | 7  | 3  
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   | 1178  
   | 1642   | 2501   
   | 221  | 5360  | 49   | <2  
   | 0  | <0.2   | 13.7   | 40   | 7.4  |
| 36       20-Apr-02       14       1       1       11       11       11       13       <10       80       1280       1720       2836       336       336       336       20       0       0.21       Avg       7.2         38       Oski - Port Main Engine       I       I       11  
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| 37       Notes:       Elements with no change omitted       Coolam teak reported by sample       522 tach hours       Avg       7.2         38       Oski - Port Main Enjre       N <td>36</td> <td>20-Apr-02</td> <td>14</td> <td>1</td> <td>2</td> <td>1</td> <td>9</td> <td>9</td> <td>1</td> <td>0.1</td> <td>15</td> <td>114</td> <td>13</td> <td>&lt;10</td> <td>80</td> <td>1260</td> <td>1720</td> <td>2835</td> <td>336</td> <td></td> <td>30</td> <td>&lt;2</td> <td>0</td> <td>&lt;0.2</td> <td></td> <td></td> <td></td>   
  | 36   | 20-Apr-02   | 14   | 1  | 2   | 1   | 9   
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   | 1   | 0.1  | 15   
  | 114  | 13   | <10  
   | 80  
   | 1260  | 1720  
  | 2835   | 336  |   | 30   
   | <2  | 0  | <0.2   |   
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| 30         Oski - Port Wain Engine         v <td>37</td> <td>Notes:</td> <td>Elem</td> <td>nents</td> <td>with r</td> <td>no cha</td> <td>ange</td> <td>omitte</td> <td>ed</td> <td></td> <td></td> <td>Cool</td> <td>ant le</td> <td>ak rep</td> <td>ortec</td> <td>l by san</td> <td>nple</td> <td></td> <td>529</td> <td>tach ho</td> <td>ours</td> <td></td> <td></td> <td></td> <td></td> <td>Avg</td> <td>7.2</td>   
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  | Cool   | ant le   | ak rep   
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| BATE         Q <td></td> <td></td> <td></td> <td>₹</td> <td></td> <td>Σ</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td>Z</td> <td>ORI</td> <td></td> <td>_</td> <td>⊇</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>  
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| 39       DATE       E       C       E       C       C       S       C       C       S       E       C       N       A       Pb       Cu       S       A       K       Mo       P       Zn       Ca       Mg       Unit       Oil       VOSOOS VO1000G       ADDE         41  
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   | 7   | LVER   | LICON  
  | DRON   | MUID   | TASSIUN  
   | JLYBDEN   
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  | ALCIUM   | AGNESIUN   | Ήr  | Ήr   
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| цj   | z  |
| 42       22-Oct-39       92       5       1       2       11       4       6       0.1       9       63       6       10       5       1278       1233       167       1523       6687       328       .       16       40       6.6         43       13-Jan-94       1666       13       1       2       13       4       17       0.1       9       28       14       10       5       1188       1481       1008       1052       7110       423       .       16.1       40       5.3         44       25-Apr-yal 260       23       1       1       10       12       13       10       5       1186       1411       1406       386       786       417       16.4       40       3.3         45       07-Jul-94       202       1       1       10       25       1.1       10       15       1480       1414       379       379       15.2       40       5.1         47       17-Aug-01       21       1       1       13       1.0       17       3       7       10       5       1089       1272       1832       531       4922       10.0 <td>39</td> <td>DATE</td> <td>IRON</td> <td>CHROMIUM</td> <td>NICKEL</td> <td></td> <td>p LEAD</td> <td>COPPER</td> <td>TIN</td> <td>SILVER</td> <td>SILICON</td> <td>BORON</td> <td>Rodium</td> <td>POTASSIUN</td> <td></td> <td>PHOSPHOR</td> <td>ZINC</td> <td>CALCIUM</td> <td>MAGNESIUN</td> <td>Mi/Hr</td> <td>2 Mi/Hr</td> <td>FUEL</td> <td>FUEL</td> <td>WTR.</td> <td>VIS CS</td> <td>SAE.</td> <td>TBN</td>  
  | 39   | DATE  | IRON   | CHROMIUM   | NICKEL  |   | p LEAD  
  | COPPER   
   | TIN   | SILVER   | SILICON  
  | BORON  | Rodium   | POTASSIUN  
   |   
   | PHOSPHOR  | ZINC  
  | CALCIUM  | MAGNESIUN  | Mi/Hr   | 2 Mi/Hr  
   | FUEL  | FUEL   | WTR.   | VIS CS  
| SAE.   | TBN  |
| 43       13-Jan-94       166       13       1       2       13       4       17       0.1       9       28       14       10       5       1188       1451       1089       1052       7110       423       1       16.1       40       5.3         44       25-Apr-94       240       23       1       1       11       10       13       12       23       18       31       10       5       1188       1481       456       7541       431       15.7       40       3.1         45       07-Jul-94       252       0       1       10       13       12       22       10       5       1899       1155       296       1414       379       79       15.2       40       5.1         47       17-Aug-01       24       2       1       1       10.2       5       105       1099       1272       1832       531       4921       10       2.0       10.2       14.6       40       7.6         48       07-Sep-01       1       1       5       1       10.6       1318       1306       1806       527       2893       253       2       0       0.   
  | 39<br>40   | DATE  | NO3I Fe  | ည္ CHROMIUM  | Z NICKEL  | ≥ ALUMINUM  | 뎡 LEAD  
  | COPPER   
   | NIT Su  | & SILVER   | © SILICON  
  | BORON  | WNIDOS Na  | ⊼ POTASSIUN  
   | Вмог⊁вреи   
   | PHOSPHOR  | ZINC<br>Zn  
  | S CALCIUM  |  | JH/IW<br>Unit   | <u>O</u> Mi/Hr   
   | °<br>6 FUEL   |  | oo<br>oo WTR.  | SD SIA  
| SAE.   | TBN  |
| 44       25.Apr-94       240       23       1       2       13       16       12       0.1       23       18       31       10       5       1166       1385       1485       456       7541       431       15.7       40       3.2         45       07-Jul-94       252       30       1       1       10       13       0.1       13       12       22       10       5       1896       1411       140       386       7958       417       152       40       5.1         47       17-Aug-01       21       1       1       1       7       3       1       0.1       17       3       7       10       5       1089       1272       1832       531       4922       100       2       0.1       0.2       14.6       0       7.4         49       07-Sep-011       1       1       1       0.1       8       2       5       10       5       1180       1306       1806       527       2838       253       <2  
  | 39<br>40<br>41<br>42   | DATE<br>22-Oct-93   | NOUI<br>Fe   | 5 CHROMIUM   | NICKEL  | ALUMINUM<br>2   | P LEAD  
  | 4 COPPER   
   | NIL Sn 6  | Ag 0.1   | φ 🖄 SILICON  
  | NONOA B  | MNICOS Na 6  |  
   | о ह Мог⊁вреи  
   | NOHASOHA<br>P<br>1278   | ONIZ<br>Zn<br>1233  
  | Carcinu<br>Ca  | MAGNESIUN<br>Mg<br>1523  | JH/IW<br>Unit   | JH/IW<br>OII   
   | <pre>%</pre>  | Ö FUEL   | % M<br>MTR.  | SO SIA<br>100'C   
| BAB<br>RAD   | Ng<br>E<br>6.6   |
| 45       07-Ju-94       252       30       1       11       10       13       10       10       100       10       100 <td>39<br/>40<br/>41<br/>42<br/>43</td> <td>DATE<br/>22-Oct-93<br/>13-Jan-94</td> <td>NO21<br/>Fe<br/>92<br/>166</td> <td>Cr<br/>5<br/>13</td> <td>NICKEL<br/>1</td> <td>ALUMINUM<br/>2<br/>2</td> <td>Pb<br/>11<br/>13</td> <td>COPPER<br/>4</td> <td>NIL<br/>Sn<br/>6</td> <td>Ag<br/>0.1</td> <td>φ φ</td> <td>NONO8<br/>B<br/>63<br/>28</td> <td>WNIGOS Na<br/>6<br/>14</td> <td></td> <td></td> <td>ионаsoна<br/>Р<br/>1278<br/>1188</td> <td>ONIZ<br/>Zn<br/>1233<br/>1451</td> <td>WNICHT<br/>Ca<br/>167<br/>1089</td> <td>Mg<br/>Mg<br/>1523<br/>1052</td> <td>JH/IW<br/>Unit<br/>6687<br/>7110</td> <td>-<br/>Н/іШ<br/>ОіІ<br/>328<br/>423</td> <td>S FUEL</td> <td>OO FUEL</td> <td>oo MTR.</td> <td>SO SI<br/>100'C<br/>16<br/>16.1</td> <td>- JAC<br/>RAD<br/>40<br/>40</td> <td>NgL<br/>E<br/>6.6<br/>5.3</td>   
  | 39<br>40<br>41<br>42<br>43   | DATE<br>22-Oct-93<br>13-Jan-94  | NO21<br>Fe<br>92<br>166  | Cr<br>5<br>13  | NICKEL<br>1   | ALUMINUM<br>2<br>2  | Pb<br>11<br>13  
  | COPPER<br>4  
   | NIL<br>Sn<br>6  | Ag<br>0.1  | φ φ  
  | NONO8<br>B<br>63<br>28   | WNIGOS Na<br>6<br>14   |  
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   | ионаsoна<br>Р<br>1278<br>1188   | ONIZ<br>Zn<br>1233<br>1451  
  | WNICHT<br>Ca<br>167<br>1089  | Mg<br>Mg<br>1523<br>1052   | JH/IW<br>Unit<br>6687<br>7110   | -<br>Н/іШ<br>ОіІ<br>328<br>423   
   | S FUEL  | OO FUEL  | oo MTR.  | SO SI<br>100'C<br>16<br>16.1  
| - JAC<br>RAD<br>40<br>40   | NgL<br>E<br>6.6<br>5.3   |
| 440       16-FeB-3s       64       2       1       1       9       10       25       10       10       10       15       100       5       1089       1135       296       1414       379       379       15.2       40       5.1         47       17-Augo1       21         
  | 39<br>40<br>41<br>42<br>43<br>44   | DATE<br>22-Oct-93<br>13-Jan-94<br>25-Apr-94   | NO21<br>Fe<br>92<br>166<br>240   | WNIWONHO<br>Cr<br>13<br>23   | I NICKEL  | WINNIWN<br>A<br>2<br>2<br>2   | DF Pb 11 13 13  
  | COPPER<br>4<br>16  
   | NIL<br>Sn<br>6<br>17<br>12  | Ag<br>0.1<br>0.1   | NOCITICON<br>9 9 23  
  | NOYOB<br>B<br>63<br>28<br>18   | WNIDOS Na<br>6<br>14<br>31   | NUISSATOA × 10 10 10   
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   | иона<br>Р<br>1278<br>1188<br>1169   | O<br>N<br>Zn<br>1233<br>1451<br>1385  
  | WNICITAL<br>Ca<br>167<br>1089<br>1485  | M9<br>Mg<br>1523<br>1052<br>456  | LH/IW<br>Unit<br>6687<br>7110<br>7541   | -H/iW<br>Oil<br>328<br>423<br>431  
   | PUEL  |  | o MTR.   | S)<br>S)<br>100'C<br>16<br>16.1<br>15.7   
| ЭКАД<br>ЗКАД<br>40<br>40   | NBL<br>E<br>6.6<br>5.3<br>3.2  |
| Theory of 12 and 1 and   
  | 39<br>40<br>41<br>42<br>43<br>44<br>45   | DATE<br>22-Oct-93<br>13-Jan-94<br>25-Apr-94<br>07-Jul-94  | NO2II<br>Fe<br>92<br>166<br>240<br>252   | WNIWONHO Cr<br>5<br>13<br>23<br>30   | I NICKEL  | WNNIWNNV AI   | DV 31 Pb 11 13 13 11 0   | UCOPPER<br>Cn<br>4<br>10<br>10   
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   | йОнdsOnd<br>P<br>1278<br>1188<br>1169<br>1186   
   | O<br>N<br>Zn<br>1233<br>1451<br>1385<br>1411   | WNICY<br>Ca<br>167<br>1089<br>1485<br>1406   
   | ND<br>S<br>S<br>ND<br>W<br>Mg<br>1523<br>1052<br>456<br>386  | -<br>H/iW<br>Unit<br>6687<br>7110<br>7541<br>7958<br>970  | H/IW<br>Oil<br>328<br>423<br>431<br>417  | S FUEL  
   |  | o MTR.   | S)<br>S)<br>100'C<br>16<br>16.1<br>15.7<br>16  | - Jeves RAD<br>RAD<br>40<br>40<br>40   | Ng<br>E<br>6.6<br>5.3<br>3.2<br>3.1  |
| 49       07.Sep-01       7       1       1       1       5       1       1       0.1       8       2       5       10       5       1106       1318       1733       538       2840       251       <2       0       <0.2       14.6       40       7.8         50       14-Sep-01       10       1       2       1       7       1       1       0.3       7       3       7       10       5       1151       1252       1283       253       <2       0       <0.2       14.7       40       7.6         52       28-Sep-01       12       1       1       1       0.1       7       3       5       100       5       1151       1252       1737       562       2920       12       2       0       <0.2       14.4       40       7.6       5       1101       13       1731       658       2927       20       <2       0       <0.2       14.4       40       7.1         54       12-Oct-01       15       1       1       7       2       1       1       1       7       3       7       10       5       1056       1306       1307 </td <td>39<br/>40<br/>41<br/>42<br/>43<br/>44<br/>45<br/>46<br/>47</td> <td>DATE<br/>22-Oct-93<br/>13-Jan-94<br/>25-Apr-94<br/>07-Jul-94<br/>16-Feb-95<br/>17-Aur-01</td> <td>NON<br/>Fe<br/>92<br/>166<br/>240<br/>252<br/>54<br/>21</td> <td>WNIWOUHO Cr<br/>5<br/>13<br/>23<br/>30<br/>2<br/>1</td> <td>I NICKEL</td> <td>WNNIWNIW<br/>Al<br/>2<br/>2<br/>1<br/>1</td> <td>DF 11<br/>13<br/>13<br/>11<br/>9<br/>7</td> <td>UCOPPER<br/>4<br/>10<br/>10<br/>3</td> <td>NIL Sn<br/>6<br/>17<br/>12<br/>13<br/>25<br/>1</td> <td>Ag<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1</td> <td>NODITIS Si<br/>9<br/>23<br/>13<br/>10<br/>17</td> <td>NOYOG<br/>B<br/>63<br/>28<br/>18<br/>12<br/>102<br/>3</td> <td>WNICOS Na<br/>6<br/>14<br/>31<br/>22<br/>13<br/>7</td> <td></td> <td></td> <td>P<br/>1278<br/>1188<br/>1169<br/>1186<br/>899</td> <td>OZ<br/>Zn<br/>1233<br/>1451<br/>1385<br/>1411<br/>1155<br/>1272</td> <td>WNIC<br/>Ca<br/>Ca<br/>167<br/>1089<br/>1485<br/>1406<br/>296<br/>1832</td> <td>Mg<br/>Mg<br/>1523<br/>1052<br/>456<br/>386<br/>1414<br/>531</td> <td>Him<br/>Unit<br/>6687<br/>7110<br/>7541<br/>7958<br/>379<br/>4922</td> <td>H/IW<br/>Oil<br/>328<br/>423<br/>431<br/>417<br/>379</td> <td>VEL</td> <td></td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>S<br/>S<br/>100'C<br/>16<br/>16.1<br/>15.7<br/>16<br/>15.2<br/>14.6</td> <td>US AD<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40</td> <td>E<br/>6.6<br/>5.3<br/>3.2<br/>3.1<br/>5.1</td>  
  | 39<br>40<br>41<br>42<br>43<br>44<br>45<br>46<br>47   | DATE<br>22-Oct-93<br>13-Jan-94<br>25-Apr-94<br>07-Jul-94<br>16-Feb-95<br>17-Aur-01  | NON<br>Fe<br>92<br>166<br>240<br>252<br>54<br>21   | WNIWOUHO Cr<br>5<br>13<br>23<br>30<br>2<br>1   | I NICKEL  | WNNIWNIW<br>Al<br>2<br>2<br>1<br>1  | DF 11<br>13<br>13<br>11<br>9<br>7   
  | UCOPPER<br>4<br>10<br>10<br>3  
   | NIL Sn<br>6<br>17<br>12<br>13<br>25<br>1  | Ag<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1  | NODITIS Si<br>9<br>23<br>13<br>10<br>17  
  | NOYOG<br>B<br>63<br>28<br>18<br>12<br>102<br>3   | WNICOS Na<br>6<br>14<br>31<br>22<br>13<br>7  |  
   |   
   | P<br>1278<br>1188<br>1169<br>1186<br>899  | OZ<br>Zn<br>1233<br>1451<br>1385<br>1411<br>1155<br>1272  
  | WNIC<br>Ca<br>Ca<br>167<br>1089<br>1485<br>1406<br>296<br>1832   | Mg<br>Mg<br>1523<br>1052<br>456<br>386<br>1414<br>531  | Him<br>Unit<br>6687<br>7110<br>7541<br>7958<br>379<br>4922  | H/IW<br>Oil<br>328<br>423<br>431<br>417<br>379   
   | VEL   |  | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | S<br>S<br>100'C<br>16<br>16.1<br>15.7<br>16<br>15.2<br>14.6   
| US AD<br>40<br>40<br>40<br>40<br>40<br>40<br>40  | E<br>6.6<br>5.3<br>3.2<br>3.1<br>5.1   |
| 50       14-Sep-01       10       1       2       1       7       1       1       0.3       7       3       7       10       5       1180       1306       1806       527       2893       253       <2       0       <0.2       14.7       40       7.1         51       25-Sep-01       12       1       1       6       1       1       0.1       9       3       6       10       5       1151       1252       1737       562       2920       12       2       0       <0.2       14.6       40       7.6         53       05-Ot-01       12       1       1       7       2       1       0.1       7       3       7       10       5       1036       1152       1539       486       2927       20       <2       0       <0.2       14.4       40       7.6         53       05-Ot-01       17       1       1       1       7       2       1       0.1       9       3       7       10       5       1065       1338       1685       670       3016       108       2       1       <0.2       14.4       40       7.2 <t< td=""><td>39<br/>40<br/>41<br/>42<br/>43<br/>44<br/>45<br/>46<br/>47<br/>48</td><td>DATE<br/>22-Oct-93<br/>13-Jan-94<br/>25-Apr-94<br/>07-Jul-94<br/>16-Feb-95<br/>17-Aug-01<br/>30-Aug-01</td><td>NON<br/>Fe<br/>92<br/>166<br/>240<br/>252<br/>54<br/>21<br/>24</td><td>WNIWONHOCK<br/>Cr<br/>5<br/>13<br/>23<br/>30<br/>2<br/>1<br/>2</td><td>NICKEL<br/>1<br/>1<br/>1<br/>1<br/>1</td><td>WNNIWNTY AI</td><td>Pb<br/>11<br/>13<br/>13<br/>11<br/>9<br/>7<br/>11</td><td>UCOPPER<br/>Cn<br/>4<br/>4<br/>10<br/>10<br/>3<br/>4</td><td>NIL Sn<br/>6<br/>17<br/>12<br/>13<br/>25<br/>1<br/>1</td><td>Ag<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.2</td><td>NODITIS Si<br/>9<br/>9<br/>23<br/>13<br/>10<br/>17<br/>15</td><td>NOYOG<br/>B<br/>63<br/>28<br/>18<br/>12<br/>102<br/>3<br/>4</td><td>WNIGOS Na<br/>6<br/>14<br/>31<br/>22<br/>13<br/>7<br/>9</td><td>MNISSUDA X 10 10 10 10 10 10 10 10 10 10 10 10 10</td><td></td><td>йОНАS<br/>ОНА<br/>1278<br/>1188<br/>1169<br/>1186<br/>899<br/>1089<br/>1094</td><td>O<br/>Zn<br/>1233<br/>1451<br/>1385<br/>1411<br/>1155<br/>1272<br/>1266</td><td>WND740<br/>Ca<br/>167<br/>1089<br/>1485<br/>1406<br/>296<br/>1832<br/>1742</td><td>Mg<br/>Mg<br/>1523<br/>1052<br/>456<br/>386<br/>1414<br/>531<br/>407</td><td>LIN<br/>Unit<br/>6687<br/>7110<br/>7541<br/>7958<br/>379<br/>4922<br/>2640</td><td>H/iW<br/>Oil<br/>328<br/>423<br/>431<br/>417<br/>379<br/>100<br/>200</td><td>2 &lt;2</td><td>3000<br/>5000<br/>0.1</td><td></td><td>S<br/>S<br/>100'C<br/>16<br/>16.1<br/>15.7<br/>16<br/>15.2<br/>14.6<br/>14.5</td><td>3<br/>RAD<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40</td><td>E<br/>6.6<br/>5.3<br/>3.2<br/>3.1<br/>5.1<br/>7.4</td></t<>   
  | 39<br>40<br>41<br>42<br>43<br>44<br>45<br>46<br>47<br>48   | DATE<br>22-Oct-93<br>13-Jan-94<br>25-Apr-94<br>07-Jul-94<br>16-Feb-95<br>17-Aug-01<br>30-Aug-01   | NON<br>Fe<br>92<br>166<br>240<br>252<br>54<br>21<br>24   | WNIWONHOCK<br>Cr<br>5<br>13<br>23<br>30<br>2<br>1<br>2   | NICKEL<br>1<br>1<br>1<br>1<br>1   | WNNIWNTY AI   | Pb<br>11<br>13<br>13<br>11<br>9<br>7<br>11  
  | UCOPPER<br>Cn<br>4<br>4<br>10<br>10<br>3<br>4  
   | NIL Sn<br>6<br>17<br>12<br>13<br>25<br>1<br>1   | Ag<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.2  | NODITIS Si<br>9<br>9<br>23<br>13<br>10<br>17<br>15   
  | NOYOG<br>B<br>63<br>28<br>18<br>12<br>102<br>3<br>4  | WNIGOS Na<br>6<br>14<br>31<br>22<br>13<br>7<br>9   | MNISSUDA X 10 10 10 10 10 10 10 10 10 10 10 10 10  
   |   
   | йОНАS<br>ОНА<br>1278<br>1188<br>1169<br>1186<br>899<br>1089<br>1094   | O<br>Zn<br>1233<br>1451<br>1385<br>1411<br>1155<br>1272<br>1266   
  | WND740<br>Ca<br>167<br>1089<br>1485<br>1406<br>296<br>1832<br>1742   | Mg<br>Mg<br>1523<br>1052<br>456<br>386<br>1414<br>531<br>407   | LIN<br>Unit<br>6687<br>7110<br>7541<br>7958<br>379<br>4922<br>2640  | H/iW<br>Oil<br>328<br>423<br>431<br>417<br>379<br>100<br>200   
   | 2 <2  | 3000<br>5000<br>0.1  |  | S<br>S<br>100'C<br>16<br>16.1<br>15.7<br>16<br>15.2<br>14.6<br>14.5   
| 3<br>RAD<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40   | E<br>6.6<br>5.3<br>3.2<br>3.1<br>5.1<br>7.4  |
| b1       25-Sep-01       12       1       1       1       0       1       0       1       0       1       0       1       0       5       1151       1252       1737       562       2920       12       -2       0       -0.2       14.6       40       7.6         52       05-Oct-01       12       1       1       1       0       1       7       3       5       10       5       1150       1253       486       2927       20       -2       0       -0.2       14.4       40       7.6         53       05-Oct-01       15       1       1       1       7       2       1       0.1       7       3       7       10       5       1066       1307       1671       664       2992       84       -2       0.1       -0.2       14.4       40       7.6         55       19-Oct-01       17       1       1       1       7       2       1       0.1       9       3       7       10       5       1055       1338       1685       670       3016       108       2       1       -0.1       4       8       11       5 <t< td=""><td>39<br/>40<br/>41<br/>42<br/>43<br/>44<br/>45<br/>46<br/>47<br/>48<br/>49</td><td>DATE<br/>22-Oct-93<br/>13-Jan-94<br/>25-Apr-94<br/>07-Jul-94<br/>16-Feb-95<br/>17-Aug-01<br/>30-Aug-01<br/>30-Aug-01</td><td>NON<br/>Fe<br/>92<br/>166<br/>240<br/>252<br/>54<br/>21<br/>24<br/>7</td><td>WNIWONHO<br/>Cr<br/>5<br/>13<br/>23<br/>30<br/>2<br/>1<br/>2<br/>1<br/>2</td><td>NICKET</td><td>WNNIWNTY AI<br/>2<br/>2<br/>1<br/>1<br/>1<br/>1</td><td>DF PD PD</td><td>UCOPPER<br/>Cn<br/>4<br/>4<br/>4<br/>10<br/>10<br/>3<br/>4<br/>1</td><td>NIL<br/>Sn<br/>6<br/>17<br/>12<br/>13<br/>25<br/>1<br/>1<br/>1<br/>1</td><td>Ag<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.2<br/>0.1</td><td>NOOJIJIS SI<br/>9 9 23<br/>13 10<br/>17<br/>15 8</td><td>NOYOB<br/>B<br/>63<br/>28<br/>18<br/>12<br/>102<br/>3<br/>4<br/>2</td><td>WnIdos Na<br/>6<br/>14<br/>31<br/>22<br/>13<br/>7<br/>9<br/>5</td><td>MNISSVLOA X 10 10 10 10 10 10 10 10 10 10 10 10 10</td><td></td><td>ионаsoна<br/>P<br/>1278<br/>1188<br/>1169<br/>1186<br/>899<br/>1089<br/>1094<br/>1106</td><td>Ou<br/>Zn<br/>1233<br/>1451<br/>1385<br/>1411<br/>1155<br/>1272<br/>1266<br/>1318</td><td>Wn O Ca<br/>Ca<br/>167<br/>1089<br/>1485<br/>1406<br/>296<br/>1832<br/>1742<br/>1733</td><td>Mg<br/>1523<br/>1052<br/>456<br/>386<br/>1414<br/>531<br/>407<br/>538</td><td>Ч.<br/>- Ч.<br/>- Ч.<br/>-</td><td>H/W<br/>Oil<br/>328<br/>423<br/>431<br/>417<br/>379<br/>100<br/>200<br/>251</td><td></td><td>0.1<br/>0.1<br/>0</td><td>0.2<br/>&lt;0.2<br/>&lt;0.2</td><td>S<br/>S<br/>100'C<br/>16<br/>16.1<br/>15.7<br/>16<br/>15.2<br/>14.6<br/>14.5<br/>14.6</td><td>3<br/>RAD<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40</td><td>Ng<br/>E<br/>6.6<br/>5.3<br/>3.2<br/>3.1<br/>5.1<br/>7.4<br/>7.8</td></t<>  
   | 39<br>40<br>41<br>42<br>43<br>44<br>45<br>46<br>47<br>48<br>49   | DATE<br>22-Oct-93<br>13-Jan-94<br>25-Apr-94<br>07-Jul-94<br>16-Feb-95<br>17-Aug-01<br>30-Aug-01<br>30-Aug-01  | NON<br>Fe<br>92<br>166<br>240<br>252<br>54<br>21<br>24<br>7  | WNIWONHO<br>Cr<br>5<br>13<br>23<br>30<br>2<br>1<br>2<br>1<br>2   | NICKET  | WNNIWNTY AI<br>2<br>2<br>1<br>1<br>1<br>1   | DF PD  | UCOPPER<br>Cn<br>4<br>4<br>4<br>10<br>10<br>3<br>4<br>1   
  | NIL<br>Sn<br>6<br>17<br>12<br>13<br>25<br>1<br>1<br>1<br>1  | Ag<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.2<br>0.1  | NOOJIJIS SI<br>9 9 23<br>13 10<br>17<br>15 8  
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  | Mg<br>1523<br>1052<br>456<br>386<br>1414<br>531<br>407<br>538  | Ч.<br>- | H/W<br>Oil<br>328<br>423<br>431<br>417<br>379<br>100<br>200<br>251   |   | 0.1<br>0.1<br>0  
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| Joc         Zor-Sep-U1         r         1 <t< td=""><td>39<br/>40<br/>41<br/>42<br/>43<br/>44<br/>45<br/>46<br/>47<br/>48<br/>49<br/>50</td><td>DATE<br/>22-Oct-93<br/>13-Jan-94<br/>25-Apr-94<br/>07-Jul-94<br/>16-Feb-95<br/>17-Aug-01<br/>30-Aug-01<br/>30-Aug-01<br/>107-Sep-01<br/>14-Sep-01</td><td>Z<br/>O2<br/>Fe<br/>92<br/>166<br/>240<br/>252<br/>54<br/>21<br/>24<br/>7<br/>10</td><td>WNIWONHO<br/>Cr<br/>5<br/>13<br/>23<br/>30<br/>2<br/>1<br/>2<br/>1<br/>2<br/>1<br/>1</td><td>NICKEL<br/>Ni<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>2</td><td>WNNIWNTY AI<br/>2<br/>2<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1</td><td>QV 3 7<br/>Pb<br/>111<br/>13<br/>13<br/>13<br/>11<br/>9<br/>7<br/>111<br/>5<br/>7</td><td>UCOPPER<br/>Cn<br/>4<br/>4<br/>4<br/>10<br/>10<br/>3<br/>4<br/>1<br/>1</td><td>ZE<br/>Sn<br/>6<br/>17<br/>12<br/>13<br/>25<br/>1<br/>1<br/>1<br/>1<br/>1</td><td>Ag<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.2<br/>0.1<br/>0.3</td><td>NODIIIS Si<br/>9<br/>9<br/>23<br/>13<br/>10<br/>17<br/>15<br/>8<br/>7</td><td>NO2O8<br/>B<br/>63<br/>28<br/>18<br/>12<br/>102<br/>3<br/>4<br/>2<br/>3</td><td>Wnidos<br/>Na<br/>6<br/>14<br/>31<br/>22<br/>13<br/>7<br/>9<br/>5<br/>7<br/>7</td><td>MUISSAUM K 10 10 10 10 10 10 10 10 10 10 10 10 10</td><td>NADEN<br/>MOLYBDEN<br/>S 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5</td><td>ионаsoна<br/>P<br/>1278<br/>1188<br/>1169<br/>1186<br/>899<br/>1089<br/>1089<br/>1094<br/>1106<br/>1180</td><td>ONIZ<br/>Zn<br/>1233<br/>1451<br/>1385<br/>1411<br/>1155<br/>1272<br/>1266<br/>1318<br/>1306</td><td>Wn Cy Ca<br/>Ca<br/>167<br/>1089<br/>1485<br/>1406<br/>296<br/>1832<br/>1742<br/>1733<br/>1806</td><td>Mg<br/>1523<br/>1052<br/>456<br/>386<br/>1414<br/>531<br/>407<br/>538<br/>527</td><td>Unit<br/>06687<br/>7110<br/>7541<br/>7958<br/>379<br/>4922<br/>2640<br/>2840<br/>2893</td><td>Hiji<br/>Oil<br/>328<br/>423<br/>431<br/>417<br/>379<br/>100<br/>200<br/>251<br/>253</td><td>2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td><td>U-11<br/>0.1<br/>0.1<br/>0.1</td><td></td><td>S<br/>S<br/>100'C<br/>16<br/>16.1<br/>15.7<br/>16<br/>15.2<br/>14.6<br/>14.5<br/>14.6<br/>14.7</td><td>3RAD<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40</td><td>RE<br/>6.6<br/>5.3<br/>3.2<br/>3.1<br/>5.1<br/>7.4<br/>7.8<br/>7.1</td></t<>  
  | 39<br>40<br>41<br>42<br>43<br>44<br>45<br>46<br>47<br>48<br>49<br>50   | DATE<br>22-Oct-93<br>13-Jan-94<br>25-Apr-94<br>07-Jul-94<br>16-Feb-95<br>17-Aug-01<br>30-Aug-01<br>30-Aug-01<br>107-Sep-01<br>14-Sep-01   | Z<br>O2<br>Fe<br>92<br>166<br>240<br>252<br>54<br>21<br>24<br>7<br>10  | WNIWONHO<br>Cr<br>5<br>13<br>23<br>30<br>2<br>1<br>2<br>1<br>2<br>1<br>1   | NICKEL<br>Ni<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>2   | WNNIWNTY AI<br>2<br>2<br>1<br>1<br>1<br>1<br>1<br>1   | QV 3 7<br>Pb<br>111<br>13<br>13<br>13<br>11<br>9<br>7<br>111<br>5<br>7  
  | UCOPPER<br>Cn<br>4<br>4<br>4<br>10<br>10<br>3<br>4<br>1<br>1   
   | ZE<br>Sn<br>6<br>17<br>12<br>13<br>25<br>1<br>1<br>1<br>1<br>1  | Ag<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.2<br>0.1<br>0.3  | NODIIIS Si<br>9<br>9<br>23<br>13<br>10<br>17<br>15<br>8<br>7   
  | NO2O8<br>B<br>63<br>28<br>18<br>12<br>102<br>3<br>4<br>2<br>3  | Wnidos<br>Na<br>6<br>14<br>31<br>22<br>13<br>7<br>9<br>5<br>7<br>7   | MUISSAUM K 10 10 10 10 10 10 10 10 10 10 10 10 10  
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   | ионаsoна<br>P<br>1278<br>1188<br>1169<br>1186<br>899<br>1089<br>1089<br>1094<br>1106<br>1180  | ONIZ<br>Zn<br>1233<br>1451<br>1385<br>1411<br>1155<br>1272<br>1266<br>1318<br>1306  
  | Wn Cy Ca<br>Ca<br>167<br>1089<br>1485<br>1406<br>296<br>1832<br>1742<br>1733<br>1806   | Mg<br>1523<br>1052<br>456<br>386<br>1414<br>531<br>407<br>538<br>527   | Unit<br>06687<br>7110<br>7541<br>7958<br>379<br>4922<br>2640<br>2840<br>2893  | Hiji<br>Oil<br>328<br>423<br>431<br>417<br>379<br>100<br>200<br>251<br>253   
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| 3RAD<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40   | RE<br>6.6<br>5.3<br>3.2<br>3.1<br>5.1<br>7.4<br>7.8<br>7.1   |
| 54       12-01-01       15       1       1       7       2       1       0.1       9       3       7       10       5       1030<  
  | 39<br>40<br>41<br>42<br>43<br>44<br>45<br>46<br>47<br>48<br>49<br>50<br>51<br>51   | DATE<br>22-Oct-93<br>13-Jan-94<br>25-Apr-94<br>07-Jul-94<br>16-Feb-95<br>17-Aug-01<br>30-Aug-01<br>07-Sep-01<br>14-Sep-01<br>25-Sep-01  | NONI<br>Fe<br>92<br>166<br>240<br>252<br>54<br>21<br>24<br>7<br>10<br>12   | WNIWONHO<br>Cr<br>5<br>13<br>30<br>2<br>1<br>2<br>1<br>2<br>1<br>1<br>1<br>1   | Ni<br>Ni<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>2<br>1   | WNNIWNTY AI<br>2<br>2<br>2<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                                       | CE C  
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   | Z <sub>L</sub><br>Sn<br>6<br>17<br>12<br>13<br>25<br>1<br>1<br>1<br>1<br>1<br>1   | H<br>Ag<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1  | NODIIIS Si<br>Si<br>9 9 9<br>23 13<br>10 17<br>15 8<br>7 9<br>9 7  
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   | NOT ABDEN   
   | йОнаsон<br>1278<br>1278<br>1188<br>1169<br>1186<br>899<br>1089<br>1094<br>1106<br>1180<br>1180<br>1180  | ON<br>N<br>Zn<br>1233<br>1451<br>1385<br>1411<br>1155<br>1272<br>1266<br>1318<br>1306<br>1252   
  | WnioTy<br>Ca<br>167<br>1089<br>1485<br>1406<br>296<br>1832<br>1742<br>1733<br>1806<br>1733<br>1806   | VI SENDER<br>VI SEN | Hijiw<br>Unit<br>6687<br>7110<br>7541<br>7958<br>379<br>4922<br>2640<br>2840<br>2840<br>2893<br>2920<br>2027  | Hijiw<br>Oil<br>328<br>423<br>431<br>417<br>379<br>100<br>200<br>251<br>253<br>12<br>253<br>12<br>200  | 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2  
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| 55       19-Oct-O1       17       1       1       1       8       2       1       0.1       9       3       7       10       5       1055       1338       1685       670       3016       108       <2       0.1       <0.2       14.4       40       6.1         56       26-Oct-O1       20       1       2       1       10       3       1       0.1       9       4       8       11       5       1252       1398       1795       636       3037       129       <2       0.1       <0.2       14.4       40       7.2         57       31-Oct-O2       20% Bio test and water injection       7       0       3       20       13       5       1120       1405       1613       503       3052       146       <2       0       <0.2       14.4       40       6.3         58       02-Nov-01       14       3       1   
  | 39<br>40<br>41<br>42<br>43<br>44<br>45<br>46<br>47<br>48<br>49<br>50<br>51<br>52<br>53   | DATE<br>22-Oct-93<br>13-Jan-94<br>25-Apr-94<br>07-Jul-94<br>16-Feb-95<br>17-Aug-01<br>30-Aug-01<br>07-Sep-01<br>14-Sep-01<br>25-Sep-01<br>28-Sep-01<br>28-Sep-01  | NONI<br>Fe<br>92<br>166<br>240<br>252<br>54<br>21<br>24<br>7<br>10<br>12<br>7<br>12  | WNIWONHO<br>Cr<br>5<br>13<br>23<br>30<br>2<br>1<br>2<br>1<br>1<br>1<br>1<br>1<br>1<br>1  | NIOKEL<br>Ni<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>2<br>1<br>1<br>1  | WNNIWNNY<br>Al<br>2<br>2<br>2<br>2<br>2<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                | CHE HE CH | х<br>ш<br>ш<br>ш<br>ш<br>ш<br>ш<br>ш<br>ш<br>ш<br>ш<br>ш<br>ш<br>ш  
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   | NOYO<br>B<br>63<br>28<br>18<br>12<br>102<br>3<br>4<br>2<br>3<br>3<br>3<br>2  | WNIGOS Na<br>6<br>14<br>31<br>22<br>13<br>7<br>9<br>5<br>7<br>6<br>5<br>6  | 01 01 01 01 01 01 01 01 01 01 01 01 01 0   | NOTABDEN MOFABDEN MOFABDEN   
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  | Mg<br>Mg<br>1523<br>1052<br>456<br>386<br>1414<br>531<br>407<br>538<br>527<br>562<br>486<br>658  | LHJW<br>Unit<br>6687<br>7110<br>7541<br>7958<br>379<br>4922<br>2640<br>2840<br>2893<br>2920<br>2927<br>2921   | LINW<br>Oil<br>328<br>423<br>431<br>417<br>379<br>100<br>200<br>251<br>253<br>12<br>20<br>60   |  
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| 56       26-Oct-01       20       1       2       1       10       3       1       0.1       9       4       8       11       5       1252       1398       1795       636       3037       129       <2       0.1       <0.2       14.4       40       7.2         57       31-Oct-02       20% Bio test and water injection       9       4       8       11       5       1252       1398       1795       636       3037       129       <2       0.1       <0.2       14.4       40       7.2         58       02-Nov-01       11       1       7       2       1       0.1       9       3       20       15       5       1089       1428       1615       485       3069       161       <2       0       <0.2       14.4       40       6.3         60       16-Nov-01       48       4       2       1       1       4       10.2       18       4       197       12       5       1255       1255       1265       1341       1842       629       3116       208       20       13.2       14.4       40       6.3         621       03-Nov-01       54   
  | 39<br>40<br>41<br>42<br>43<br>44<br>45<br>46<br>47<br>48<br>49<br>50<br>51<br>52<br>53<br>54   | DATE<br>22-Oct-93<br>13-Jan-94<br>25-Apr-94<br>07-Jul-94<br>16-Feb-95<br>17-Aug-01<br>30-Aug-01<br>07-Sep-01<br>28-Sep-01<br>25-Sep-01<br>28-Sep-01<br>12-Oct-01<br>12-Oct-01   | NOU<br>Fe<br>92<br>166<br>240<br>252<br>54<br>21<br>24<br>7<br>10<br>12<br>7<br>12<br>15   | WNIWONHOCC<br>5<br>13<br>23<br>30<br>2<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1  | Ni<br>Ni<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1   | WINIWNIWA AI<br>2<br>2<br>2<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                  | QF31<br>Pb<br>111<br>13<br>13<br>13<br>11<br>5<br>7<br>6<br>3<br>7<br>7<br>7  
  | Here         Here           Cu         Cu           4         4           16         10           10         3           4         1           1         1           1         1           2         2   
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   | ионна SOнна Р<br>Р<br>1278<br>1188<br>1169<br>1186<br>899<br>1089<br>1094<br>1106<br>1180<br>1151<br>1036<br>1106<br>1068   | ONIZ<br>Zn<br>1233<br>1451<br>1385<br>1411<br>1155<br>1272<br>1266<br>1318<br>1306<br>1252<br>1152<br>1356<br>1307  
  | WND CA<br>Ca<br>167<br>1089<br>1485<br>1406<br>296<br>1832<br>1742<br>1733<br>1806<br>1737<br>1539<br>1731<br>1671   | Mg<br>Mg<br>1523<br>1052<br>456<br>386<br>1414<br>531<br>407<br>538<br>527<br>562<br>486<br>658<br>664   | LH/W<br>Unit<br>6687<br>7110<br>7541<br>7958<br>379<br>4922<br>2640<br>2840<br>2840<br>2893<br>2920<br>2927<br>2971<br>2992   | L<br>W<br>Oil<br>328<br>423<br>431<br>417<br>379<br>100<br>200<br>251<br>253<br>12<br>20<br>60<br>84   
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  | WND OT WO<br>Ca<br>167<br>1089<br>1485<br>1406<br>296<br>1832<br>1742<br>1733<br>1806<br>1737<br>1539<br>1731<br>1671<br>1685  | VDI<br>SJ NO<br>VW<br>Mg<br>1523<br>1052<br>456<br>386<br>1414<br>407<br>538<br>537<br>552<br>486<br>658<br>664<br>670   | Hill<br>Unit<br>06687<br>7110<br>7541<br>7958<br>379<br>4922<br>2640<br>2840<br>2893<br>2920<br>2840<br>2893<br>2920<br>2927<br>2971<br>2971<br>2992<br>3016  | LH W<br>OII<br>328<br>423<br>431<br>417<br>379<br>100<br>200<br>251<br>253<br>12<br>20<br>60<br>84<br>108  
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| Job       U2-NOV-01       I <th< td=""><td>39<br/>40<br/>41<br/>42<br/>43<br/>44<br/>45<br/>46<br/>47<br/>48<br/>49<br/>50<br/>51<br/>52<br/>53<br/>54<br/>55<br/>56</td><td>DATE<br/>22-Oct-93<br/>13-Jan-94<br/>25-Apr-94<br/>07-Jul-94<br/>16-Feb-95<br/>17-Aug-01<br/>30-Aug-01<br/>07-Sep-01<br/>14-Sep-01<br/>25-Sep-01<br/>28-Sep-01<br/>05-Oct-01<br/>19-Oct-01<br/>26-Oct-01</td><td>ROM<br/>Fe<br/>92<br/>166<br/>240<br/>252<br/>54<br/>21<br/>24<br/>7<br/>10<br/>12<br/>7<br/>12<br/>15<br/>17<br/>20</td><td>WNIWOUHO Cr<br/>5<br/>13<br/>30<br/>2<br/>1<br/>1<br/>2<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1</td><td>Ni<br/>Ni<br/>Ni<br/>Ni<br/>Ni<br/>Ni<br/>Ni<br/>Ni<br/>Ni<br/>Ni<br/>Ni<br/>Ni<br/>Ni<br/>N</td><td>WNNIWNIWA AI<br/>2<br/>2<br/>2<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1</td><td>CIVE J<br/>Pb<br/>111<br/>13<br/>13<br/>11<br/>9<br/>7<br/>111<br/>5<br/>7<br/>6<br/>3<br/>7<br/>7<br/>7<br/>8<br/>10</td><td>Y = dddOO<br/>Cu<br/>4<br/>4<br/>4<br/>16<br/>10<br/>10<br/>3<br/>4<br/>1<br/>1<br/>1<br/>1<br/>1<br/>2<br/>2<br/>2<br/>2<br/>3</td><td>Z<sub>L</sub><br/>Sn<br/>6<br/>17<br/>12<br/>13<br/>25<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1</td><td>Ag<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1</td><td>NODIIS<br/>Si<br/>9<br/>9<br/>9<br/>23<br/>3<br/>10<br/>17<br/>15<br/>8<br/>7<br/>9<br/>7<br/>8<br/>7<br/>7<br/>8<br/>7<br/>9<br/>9<br/>9<br/>9</td><td>R<br/>R<br/>R<br/>R<br/>R<br/>R<br/>R<br/>R<br/>R<br/>R<br/>R<br/>R<br/>R<br/>R<br/>R<br/>R<br/>R<br/>R<br/>R</td><td>WNIGOS Na<br/>6<br/>14<br/>31<br/>22<br/>3<br/>7<br/>7<br/>6<br/>5<br/>6<br/>7<br/>7<br/>8</td><td>MNISSHINK<br/>10101010101010101010101010101010101010</td><td>MOLYBDEN</td><td>n         n           P         1278           1188         1169           1188         1169           1094         1106           1180         1151           1036         1036           1036         1035           1252         1252</td><td>O<br/>Z<br/>N<br/>1233<br/>1451<br/>1385<br/>1411<br/>1155<br/>1272<br/>1266<br/>1318<br/>1306<br/>1252<br/>1152<br/>1356<br/>1307<br/>1338<br/>1398</td><td>Wnno<br/>Ca<br/>167<br/>1089<br/>1485<br/>1406<br/>296<br/>1742<br/>1733<br/>1806<br/>1737<br/>1539<br/>1731<br/>1671<br/>1685<br/>1795</td><td>Mg<br/>Mg<br/>1523<br/>1052<br/>456<br/>386<br/>1414<br/>531<br/>407<br/>538<br/>527<br/>562<br/>486<br/>658<br/>664<br/>658<br/>664<br/>670<br/>636</td><td>H<br/>Wnit<br/>66887<br/>7110<br/>7541<br/>7958<br/>379<br/>4922<br/>2640<br/>2840<br/>2840<br/>2893<br/>2920<br/>2840<br/>2893<br/>2920<br/>2927<br/>2971<br/>2971<br/>2992<br/>3016<br/>3037</td><td>L<br/>N<br/>N<br/>N<br/>N<br/>N<br/>N<br/>N<br/>N<br/>N<br/>N<br/>N<br/>N<br/>N<br/>N<br/>N<br/>N<br/>N<br/>N<br/>N</td><td>2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td><td>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1</td><td>0.2<br/>0.2<br/>0.2<br/>0.2<br/>0.2<br/>0.2<br/>0.2<br/>0.2</td><td>S<br/>S<br/>S<br/>S<br/>S<br/>S<br/>S<br/>S<br/>S<br/>S<br/>S<br/>S<br/>S<br/>S<br/>S<br/>S<br/>S<br/>S<br/>S</td><td>U S RAD<br/>RAD<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40</td><td>E<br/>6.6<br/>5.3<br/>3.2<br/>3.1<br/>5.1<br/>7.4<br/>7.8<br/>7.1<br/>7.6<br/>7.6<br/>6.9<br/>7<br/><b>6.1</b><br/>7.2</td></th<>   
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   | Z <sub>L</sub><br>Sn<br>6<br>17<br>12<br>13<br>25<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1  | Ag<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1   | NODIIS<br>Si<br>9<br>9<br>9<br>23<br>3<br>10<br>17<br>15<br>8<br>7<br>9<br>7<br>8<br>7<br>7<br>8<br>7<br>9<br>9<br>9<br>9  
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  | Wnno<br>Ca<br>167<br>1089<br>1485<br>1406<br>296<br>1742<br>1733<br>1806<br>1737<br>1539<br>1731<br>1671<br>1685<br>1795   | Mg<br>Mg<br>1523<br>1052<br>456<br>386<br>1414<br>531<br>407<br>538<br>527<br>562<br>486<br>658<br>664<br>658<br>664<br>670<br>636   | H<br>Wnit<br>66887<br>7110<br>7541<br>7958<br>379<br>4922<br>2640<br>2840<br>2840<br>2893<br>2920<br>2840<br>2893<br>2920<br>2927<br>2971<br>2971<br>2992<br>3016<br>3037   | L<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N   
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1</td><td>MOTABDEN</td><td>rž         H           V         H           V         H           V         H           1278         H           1188         H           1189         H           1186         B           1089         H           1004         H           1106         H           1106         H           10068         H           10055         H           12522         H</td><td>O<br/>Z<br/>N<br/>1233<br/>1451<br/>1385<br/>1411<br/>1155<br/>1272<br/>1266<br/>1318<br/>1306<br/>1252<br/>1152<br/>1356<br/>1307<br/>1338<br/>1398</td><td>Wno Creation Creatio</td><td>VП<br/>SI<br/>SI<br/>SI<br/>SI<br/>SI<br/>SI<br/>SI<br/>SI</td><td>Hiw Unit<br/>6687<br/>7110<br/>75541<br/>7958<br/>379<br/>4922<br/>2640<br/>2840<br/>2893<br/>2920<br/>2927<br/>2921<br/>2992<br/>3016<br/>3037<br/>2955</td><td>Live Constraints of the second second</td><td>0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td><td>U-1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.</td><td>0.2<br/>0.2<br/>0.2<br/>0.2<br/>0.2<br/>0.2<br/>0.2<br/>0.2</td><td>Signature         Signature           100°C         16           16.1         15.7           15.2         14.6           14.5         14.6           14.7         14.6           14.4         14.4           14.4         14.4</td><td>Hys         RAD           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40</td><td>E<br/>E<br/>6.6<br/>5.3<br/>3.2<br/>3.1<br/>5.1<br/>7.4<br/>7.8<br/>7.1<br/>7.6<br/>7.6<br/>6.9<br/>7<br/>6.1<br/>7.2<br/>8</td></t<>  | 39<br>40<br>41<br>42<br>43<br>44<br>45<br>46<br>47<br>48<br>9<br>50<br>51<br>52<br>53<br>54<br>55<br>56<br>57<br>52  |
DATE<br>22-Oct-93<br>13-Jan-94<br>25-Apr-94<br>16-Feb-95<br>17-Aug-01<br>30-Aug-01<br>30-Aug-01<br>14-Sep-01<br>14-Sep-01<br>25-Sep-01<br>14-Sep-01<br>28-Sep-01<br>05-Oct-01<br>12-Oct-01<br>12-Oct-01<br>12-Oct-01<br>13-Oct-02<br>30-Dct-04<br>31-Oct-02<br>30-Dct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>31-Oct-04<br>3 | NOUL<br>Fe<br>92<br>166<br>240<br>252<br>54<br>21<br>24<br>7<br>10<br>12<br>7<br>12<br>15<br>17<br>20%   | WNWOUHD<br>Cr<br>5<br>13<br>30<br>2<br>1<br>1<br>2<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1      | NICKE<br>NI<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1   | WININNIN<br>Al<br>2<br>2<br>2<br>2<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | CF H H H H H H H H H H H H H H H H H H H   | Y H d O O O Cu<br>4 4 4 16 10 10 3 4 1 1 1 1 2 2 2 3 3 ection   
  | NIL Sn<br>6<br>17<br>12<br>13<br>25<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1  | Ag<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1   | NODILIS<br>Si<br>9<br>9<br>23<br>13<br>10<br>17<br>15<br>8<br>7<br>7<br>9<br>9<br>9<br>9<br>9<br>7<br>7<br>8<br>8<br>7<br>7<br>9<br>9<br>9<br>0<br>23   
   | NOYOM<br>B<br>63<br>28<br>18<br>12<br>102<br>3<br>4<br>2<br>3<br>3<br>3<br>2<br>3<br>3<br>4<br>4<br>2<br>3<br>3<br>4<br>2<br>3<br>3<br>3<br>4<br>2<br>3<br>3<br>3<br>2<br>2<br>3<br>3<br>3<br>2<br>2<br>3<br>3<br>3<br>3 | WNIGOS Na<br>6<br>14<br>31<br>22<br>13<br>7<br>7<br>9<br>5<br>5<br>7<br>7<br>6<br>5<br>5<br>6<br>6<br>7<br>7<br>7<br>8   | MNUSSUNA<br>10 10 10 10 10 10 10 10 10 10 10 10 10 1  
  | MOTABDEN   
  | rž         H           V         H           V         H           V         H           1278         H           1188         H           1189         H           1186         B           1089         H           1004         H           1106         H           1106         H           10068         H           10055         H           12522         H   
  | O<br>Z<br>N<br>1233<br>1451<br>1385<br>1411<br>1155<br>1272<br>1266<br>1318<br>1306<br>1252<br>1152<br>1356<br>1307<br>1338<br>1398  | Wno Creation Creatio  | VП<br>SI<br>SI<br>SI<br>SI<br>SI<br>SI<br>SI<br>SI  
  | Hiw Unit<br>6687<br>7110<br>75541<br>7958<br>379<br>4922<br>2640<br>2840<br>2893<br>2920<br>2927<br>2921<br>2992<br>3016<br>3037<br>2955  | Live Constraints of the second | 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2   | U-1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.   | 0.2<br>0.2<br>0.2<br>0.2<br>0.2<br>0.2<br>0.2<br>0.2   
   | Signature         Signature           100°C         16           16.1         15.7           15.2         14.6           14.5         14.6           14.7         14.6           14.4         14.4           14.4         14.4   | Hys         RAD           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40  | E<br>E<br>6.6<br>5.3<br>3.2<br>3.1<br>5.1<br>7.4<br>7.8<br>7.1<br>7.6<br>7.6<br>6.9<br>7<br>6.1<br>7.2<br>8  |
| 61       23-Nov-01       43       3       1       1       0       3       1       0.1       15       4       182       12       5       1125       1541       1842       659       3116       208       <2       0.1       <0.2       14.3       40       6.3         62       30-Nov-01       54       4       1       2       12       4       1       0.2       19       4       184       14       5       1201       1399       1860       584       3114       233       <2       0.1       <0.2       14.1       40       7         63       06-Dec-01       100%       Biofuel Test and water injection       9       4       184       4       5       1136       1349       1750       499       318       250       <2       0.1       <0.2       14.2       4       10.1       12       4       183       1392       1341       233       <2       0.1       <0.2       14.4       5       1136       1349       1750       499       3182       284       <2       0.1       <0.2       14.2       4       14       5       1136       1349       1352       244       2.0  
  | 39<br>40<br>41<br>42<br>43<br>44<br>45<br>46<br>47<br>48<br>49<br>50<br>51<br>53<br>53<br>55<br>55<br>55<br>55<br>55<br>55<br>55<br>55<br>55<br>55<br>55                         | DATE<br>22-Oct-93<br>13-Jan-94<br>25-Apr-94<br>16-Feb-95<br>17-Aug-01<br>30-Aug-01<br>30-Aug-01<br>14-Sep-01<br>28-Sep-01<br>28-Sep-01<br>28-Sep-01<br>12-Oct-01<br>12-Oct-01<br>12-Oct-01<br>12-Oct-01<br>131-Oct-02<br>02-Nov-01  | NON<br>Fe<br>92<br>166<br>240<br>252<br>54<br>21<br>22<br>24<br>7<br>10<br>12<br>7<br>12<br>15<br>17<br>20%<br>20%   | WNIWO2HD Cr<br>5<br>13<br>23<br>30<br>2<br>1<br>1<br>2<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1  | UNC NI<br>NI<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1   | WINIWINY AI<br>2<br>2<br>2<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                   | Openation         Openation           11         13           13         13           11         9           7         7           6         3           7         7           8         10           10         10   
  | YuddoOO<br>Cu<br>4<br>4<br>4<br>16<br>10<br>10<br>3<br>4<br>1<br>1<br>1<br>1<br>1<br>2<br>2<br>3<br>sectior<br>2<br>3  
   | NE Sn<br>6 17 12 13 25 1<br>1 1 1 1<br>1 1 1<br>1 1<br>1 1<br>1 1<br>1 1  | Harrison         Harrison           Ag         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1   | 9<br>9<br>23<br>13<br>10<br>17<br>15<br>8<br>7<br>9<br>7<br>8<br>7<br>9<br>9<br>9<br>9<br>12   
  | NOYOG<br>B<br>63<br>28<br>18<br>12<br>102<br>3<br>4<br>2<br>3<br>3<br>2<br>3<br>3<br>4<br>4<br>2<br>3<br>3<br>3<br>4<br>4<br>3<br>3<br>3<br>3  | WNIGOS Na<br>6<br>14<br>31<br>22<br>13<br>7<br>9<br>5<br>7<br>6<br>5<br>6<br>7<br>7<br>6<br>5<br>6<br>7<br>7<br>8<br>20<br>10 <sup>5</sup>   | MIL         MIL <td>MOLYBDEN<br/>MOLYBDEN</td> <td><math>\vec{v}</math>         H           <math>\vec{v}</math>         H     <td>O<br/>Z<br/>N<br/>1233<br/>1451<br/>1385<br/>1411<br/>1155<br/>1272<br/>1266<br/>1318<br/>1306<br/>1252<br/>1152<br/>1356<br/>1307<br/>1338<br/>1398<br/>1405</td><td>WnO Y Ca<br/>Ca<br/>167<br/>1089<br/>1485<br/>1485<br/>1742<br/>1733<br/>1539<br/>1731<br/>1681<br/>1685<br/>1795</td><td>Mg<br/>1523<br/>1052<br/>456<br/>386<br/>457<br/>538<br/>527<br/>562<br/>486<br/>658<br/>664<br/>670<br/>636<br/>658<br/>654<br/>670<br/>636</td><td>⊥<br/>₩<br/>0 Unit<br/>6687<br/>75110<br/>7541<br/>7958<br/>379<br/>4922<br/>2840<br/>2840<br/>2840<br/>2840<br/>2840<br/>2840<br/>2892<br/>2927<br/>2927<br/>2927<br/>2927<br/>2927<br/>3016<br/>3037</td><td>Live Constant of the second se</td><td>S         D         <thd< th=""> <thd< th=""> <thd< th=""> <thd< th=""></thd<></thd<></thd<></thd<></td><td>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1</td><td>0.2<br/><ul> <li>√0.2</li> <li>√</li></ul></td><td>Signature         Signature           100°C         16           16.1         15.7           15.2         14.6           14.5         14.6           14.5         14.4           14.4         14.4           14.5         14.5</td><td>Hys         RAD           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40</td><td>E<br/>6.6<br/>5.3<br/>3.2<br/>3.1<br/>5.1<br/>7.4<br/>7.6<br/>7.6<br/>6.9<br/>7<br/>6.1<br/>7.2<br/>6.5<br/>6.3</td></td> | MOLYBDEN<br>MOLYBDEN   
  | $\vec{v}$ H <td>O<br/>Z<br/>N<br/>1233<br/>1451<br/>1385<br/>1411<br/>1155<br/>1272<br/>1266<br/>1318<br/>1306<br/>1252<br/>1152<br/>1356<br/>1307<br/>1338<br/>1398<br/>1405</td> <td>WnO Y Ca<br/>Ca<br/>167<br/>1089<br/>1485<br/>1485<br/>1742<br/>1733<br/>1539<br/>1731<br/>1681<br/>1685<br/>1795</td> <td>Mg<br/>1523<br/>1052<br/>456<br/>386<br/>457<br/>538<br/>527<br/>562<br/>486<br/>658<br/>664<br/>670<br/>636<br/>658<br/>654<br/>670<br/>636</td> <td>⊥<br/>₩<br/>0 Unit<br/>6687<br/>75110<br/>7541<br/>7958<br/>379<br/>4922<br/>2840<br/>2840<br/>2840<br/>2840<br/>2840<br/>2840<br/>2892<br/>2927<br/>2927<br/>2927<br/>2927<br/>2927<br/>3016<br/>3037</td> <td>Live Constant of the second se</td> <td>S         D         <thd< th=""> <thd< th=""> <thd< th=""> <thd< th=""></thd<></thd<></thd<></thd<></td> <td>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1</td> <td>0.2<br/><ul> <li>√0.2</li> <li>√</li></ul></td> <td>Signature         Signature           100°C         16           16.1         15.7           15.2         14.6           14.5         14.6           14.5         14.4           14.4         14.4           14.5         14.5</td> <td>Hys         RAD           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40</td> <td>E<br/>6.6<br/>5.3<br/>3.2<br/>3.1<br/>5.1<br/>7.4<br/>7.6<br/>7.6<br/>6.9<br/>7<br/>6.1<br/>7.2<br/>6.5<br/>6.3</td> | O<br>Z<br>N<br>1233<br>1451<br>1385<br>1411<br>1155<br>1272<br>1266<br>1318<br>1306<br>1252<br>1152<br>1356<br>1307<br>1338<br>1398<br>1405  
   | WnO Y Ca<br>Ca<br>167<br>1089<br>1485<br>1485<br>1742<br>1733<br>1539<br>1731<br>1681<br>1685<br>1795  | Mg<br>1523<br>1052<br>456<br>386<br>457<br>538<br>527<br>562<br>486<br>658<br>664<br>670<br>636<br>658<br>654<br>670<br>636  | ⊥<br>₩<br>0 Unit<br>6687<br>75110<br>7541<br>7958<br>379<br>4922<br>2840<br>2840<br>2840<br>2840<br>2840<br>2840<br>2892<br>2927<br>2927<br>2927<br>2927<br>2927<br>3016<br>3037  | Live Constant of the second se | S         D <thd< th=""> <thd< th=""> <thd< th=""> <thd< th=""></thd<></thd<></thd<></thd<>  
  | 0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1   | 0.2<br><ul> <li>√0.2</li> <li>√</li></ul>  | Signature         Signature           100°C         16           16.1         15.7           15.2         14.6           14.5         14.6           14.5         14.4           14.4         14.4           14.5         14.5   | Hys         RAD           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40  | E<br>6.6<br>5.3<br>3.2<br>3.1<br>5.1<br>7.4<br>7.6<br>7.6<br>6.9<br>7<br>6.1<br>7.2<br>6.5<br>6.3  |
| 62       30-Nov-01       54       4       1       2       12       4       1       0.2       19       4       184       14       5       1201       1399       1860       584       3141       23       <2       1.4.1       40       7         63       06-Dec-01       100%       Biofuel Test and water injection       6       6       14       5       1136       1349       1750       499       3158       250       <2       0.1       <0.2       14.1       40       7         64       07-Dec-01       51       4       2       2       10       3       19       4       188       14       5       1136       1349       1750       499       3158       250       <2       0.1       <0.2       14.1       40       7         65       15-Dec-01       60       3       1       2       1       0.1       12       4       1750       1388       1318       250       250       <2       0.1       <0.1       2.2       4       10       13       3       107       10       5       1338       1384       2122       474       3192       1       <2       0 <td>39<br/>40<br/>41<br/>42<br/>43<br/>44<br/>45<br/>46<br/>47<br/>48<br/>49<br/>50<br/>51<br/>53<br/>53<br/>55<br/>55<br/>55<br/>55<br/>55<br/>55<br/>55<br/>55<br/>55<br/>56<br/>57<br/>58<br/>55<br/>56<br/>60</td> <td>DATE<br/>22-Oct-93<br/>13-Jan-94<br/>25-Apr-94<br/>07-Jul-94<br/>16-Feb-95<br/>17-Aug-01<br/>30-Aug-01<br/>30-Aug-01<br/>07-Sep-01<br/>14-Sep-01<br/>25-Sep-01<br/>25-Sep-01<br/>25-Sep-01<br/>25-Sep-01<br/>25-Oct-01<br/>12-Oct-01<br/>12-Oct-01<br/>12-Oct-01<br/>13-Oct-02<br/>02-Nov-01<br/>09-Nov-01<br/>16-Nov-01</td> <td>NOU<br/>Fe<br/>92<br/>166<br/>240<br/>252<br/>54<br/>21<br/>24<br/>7<br/>10<br/>12<br/>7<br/>12<br/>15<br/>17<br/>20%<br/>17<br/>41<br/>48</td> <td>WNIWO2HD Cr<br/>5<br/>13<br/>23<br/>30<br/>2<br/>1<br/>1<br/>2<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1</td> <td>UNI<br/>NI<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1</td> <td>WNNIWNTY AI<br/>2<br/>2<br/>2<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1</td> <td>CP         Pb           11         13           13         11           9         7           11         5           7         6           3         7           7         8           10         10           11         10</td> <td>Y         H           OO         Cu           4         4           10         3           3         4           1         1           1         1           2         2           3         4           1         1           2         2           3         4           1         1           2         3           4         3</td> <td>N         N           6         17           12         13           25         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1</td> <td>Harrison         Harrison           Ag         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1</td> <td>9         9         23         13         10         17         15         8         7         9         7         8         7         9         9         12         18         7         9         9         12         18         12         18         12         18         12         18         12         18         12         18         12         18         12         18         12         18         12         18         12         18         12         18         12         18         12         18         12         13         13         13         13         13         13         14         <th14< th=""> <th14< th=""> <th14< th=""> <th< td=""><td>NOYOB<br/>B<br/>63<br/>28<br/>18<br/>12<br/>102<br/>3<br/>4<br/>2<br/>3<br/>3<br/>4<br/>2<br/>3<br/>3<br/>3<br/>4<br/>4<br/>3<br/>3<br/>3<br/>4</td><td>WnIGOS Na<br/>6<br/>14<br/>31<br/>22<br/>13<br/>7<br/>9<br/>5<br/>7<br/>6<br/>5<br/>6<br/>7<br/>7<br/>6<br/>5<br/>6<br/>7<br/>7<br/>8<br/>20<br/>195<br/>197</td><td>MNISSELUTION K 10 10 10 10 10 10 10 10 10 10 10 10 10</td><td>MOLYBDEN<br/>MOLYBDEN<br/>MOLYBDEN</td><td>m         m           O         H           O         H           O         H           O         H           1186         H           1186         H           1186         H           1186         H           1180         H           1180         H           1180         H           1180         H           1180         H           1180         H           1036         H           1055         H           1252         H           1120         H           1285         H</td><td>UN<br/>N<br/>Zn<br/>1233<br/>1451<br/>1385<br/>1272<br/>1266<br/>1318<br/>1306<br/>1252<br/>1152<br/>1356<br/>1307<br/>1338<br/>1398<br/>1405<br/>1428</td><td>WnO<br/>OT Ca<br/>Ca<br/>167<br/>1089<br/>1485<br/>1485<br/>1782<br/>1737<br/>1539<br/>1731<br/>1685<br/>1795<br/>1613<br/>1615<br/>2002</td><td>Signature           VS           VS           Mg           1523           1052           456           386           1414           531           407           538           527           562           486           664           670           636           503           485           722</td><td>Lunit<br/>6687<br/>77110<br/>7541<br/>7958<br/>379<br/>4922<br/>2840<br/>2893<br/>2920<br/>2840<br/>2893<br/>2920<br/>2927<br/>2997<br/>2997<br/>2997<br/>2997<br/>2997<br/>2997</td><td>United States St</td><td>22 22 22 22 22 22 22 22 22 22 22 22 22</td><td>BOO<br/>BOO<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1</td><td>€</td><td>20<br/>20<br/>100°C<br/>16<br/>15.7<br/>16<br/>15.2<br/>14.6<br/>14.5<br/>14.6<br/>14.5<br/>14.6<br/>14.5<br/>14.4<br/>14.5<br/>14.4<br/>14.4<br/>14.4<br/>14.4<br/>14.5<br/>14.3<br/>14.4</td><td>UV S S S S S S S S S S S S S S S S S S S</td><td>E<br/>6.6<br/>5.3<br/>3.2<br/>3.1<br/>7.4<br/>7.8<br/>7.1<br/>7.6<br/>7.6<br/>6.9<br/>7<br/>6.1<br/>7.2<br/>6.5<br/>6.3<br/>6.1</td></th<></th14<></th14<></th14<></td>   
  | 39<br>40<br>41<br>42<br>43<br>44<br>45<br>46<br>47<br>48<br>49<br>50<br>51<br>53<br>53<br>55<br>55<br>55<br>55<br>55<br>55<br>55<br>55<br>55<br>56<br>57<br>58<br>55<br>56<br>60 | DATE<br>22-Oct-93<br>13-Jan-94<br>25-Apr-94<br>07-Jul-94<br>16-Feb-95<br>17-Aug-01<br>30-Aug-01<br>30-Aug-01<br>07-Sep-01<br>14-Sep-01<br>25-Sep-01<br>25-Sep-01<br>25-Sep-01<br>25-Sep-01<br>25-Oct-01<br>12-Oct-01<br>12-Oct-01<br>12-Oct-01<br>13-Oct-02<br>02-Nov-01<br>09-Nov-01<br>16-Nov-01  | NOU<br>Fe<br>92<br>166<br>240<br>252<br>54<br>21<br>24<br>7<br>10<br>12<br>7<br>12<br>15<br>17<br>20%<br>17<br>41<br>48  | WNIWO2HD Cr<br>5<br>13<br>23<br>30<br>2<br>1<br>1<br>2<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1  | UNI<br>NI<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1  | WNNIWNTY AI<br>2<br>2<br>2<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                   | CP         Pb           11         13           13         11           9         7           11         5           7         6           3         7           7         8           10         10           11         10   | Y         H           OO         Cu           4         4           10         3           3         4           1         1           1         1           2         2           3         4           1         1           2         2           3         4           1         1           2         3           4         3   
   | N         N           6         17           12         13           25         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1   | Harrison         Harrison           Ag         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1   | 9         9         23         13         10         17         15         8         7         9         7         8         7         9         9         12         18         7         9         9         12         18         12         18         12         18         12         18         12         18         12         18         12         18         12         18         12    
    18         12         18         12         18         12         18         12         18         12         18         12         13         13         13         13         13         13         14 <th14< th=""> <th14< th=""> <th14< th=""> <th< td=""><td>NOYOB<br/>B<br/>63<br/>28<br/>18<br/>12<br/>102<br/>3<br/>4<br/>2<br/>3<br/>3<br/>4<br/>2<br/>3<br/>3<br/>3<br/>4<br/>4<br/>3<br/>3<br/>3<br/>4</td><td>WnIGOS Na<br/>6<br/>14<br/>31<br/>22<br/>13<br/>7<br/>9<br/>5<br/>7<br/>6<br/>5<br/>6<br/>7<br/>7<br/>6<br/>5<br/>6<br/>7<br/>7<br/>8<br/>20<br/>195<br/>197</td><td>MNISSELUTION K 10 10 10 10 10 10 10 10 10 10 10 10 10</td><td>MOLYBDEN<br/>MOLYBDEN<br/>MOLYBDEN</td><td>m         m           O         H           O         H           O         H           O         H           1186         H           1186         H           1186         H           1186         H           1180         H           1180         H           1180         H           1180         H           1180         H           1180         H           1036         H           1055         H           1252         H           1120         H           1285         H</td><td>UN<br/>N<br/>Zn<br/>1233<br/>1451<br/>1385<br/>1272<br/>1266<br/>1318<br/>1306<br/>1252<br/>1152<br/>1356<br/>1307<br/>1338<br/>1398<br/>1405<br/>1428</td><td>WnO<br/>OT Ca<br/>Ca<br/>167<br/>1089<br/>1485<br/>1485<br/>1782<br/>1737<br/>1539<br/>1731<br/>1685<br/>1795<br/>1613<br/>1615<br/>2002</td><td>Signature           VS           VS           Mg           1523           1052           456           386           1414           531           407           538           527           562           486           664           670           636           503           485           722</td><td>Lunit<br/>6687<br/>77110<br/>7541<br/>7958<br/>379<br/>4922<br/>2840<br/>2893<br/>2920<br/>2840<br/>2893<br/>2920<br/>2927<br/>2997<br/>2997<br/>2997<br/>2997<br/>2997<br/>2997</td><td>United States St</td><td>22 22 22 22 22 22 22 22 22 22 22 22 22</td><td>BOO<br/>BOO<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1</td><td>€</td><td>20<br/>20<br/>100°C<br/>16<br/>15.7<br/>16<br/>15.2<br/>14.6<br/>14.5<br/>14.6<br/>14.5<br/>14.6<br/>14.5<br/>14.4<br/>14.5<br/>14.4<br/>14.4<br/>14.4<br/>14.4<br/>14.5<br/>14.3<br/>14.4</td><td>UV S S S S S S S S S S S S S S S S S S S</td><td>E<br/>6.6<br/>5.3<br/>3.2<br/>3.1<br/>7.4<br/>7.8<br/>7.1<br/>7.6<br/>7.6<br/>6.9<br/>7<br/>6.1<br/>7.2<br/>6.5<br/>6.3<br/>6.1</td></th<></th14<></th14<></th14<>   | NOYOB<br>B<br>63<br>28<br>18<br>12<br>102<br>3<br>4<br>2<br>3<br>3<br>4<br>2<br>3<br>3<br>3<br>4<br>4<br>3<br>3<br>3<br>4  | WnIGOS Na<br>6<br>14<br>31<br>22<br>13<br>7<br>9<br>5<br>7<br>6<br>5<br>6<br>7<br>7<br>6<br>5<br>6<br>7<br>7<br>8<br>20<br>195<br>197  | MNISSELUTION K 10 10 10 10 10 10 10 10 10 10 10 10 10  
   | MOLYBDEN<br>MOLYBDEN<br>MOLYBDEN  
   | m         m           O         H           O         H           O         H           O         H           1186         H           1186         H           1186         H           1186         H           1180         H           1180         H           1180         H           1180         H           1180         H           1180         H           1036         H           1055         H           1252         H           1120         H           1285         H  
   | UN<br>N<br>Zn<br>1233<br>1451<br>1385<br>1272<br>1266<br>1318<br>1306<br>1252<br>1152<br>1356<br>1307<br>1338<br>1398<br>1405<br>1428  | WnO<br>OT Ca<br>Ca<br>167<br>1089<br>1485<br>1485<br>1782<br>1737<br>1539<br>1731<br>1685<br>1795<br>1613<br>1615<br>2002  | Signature           VS           VS           Mg           1523           1052           456           386           1414           531           407           538          
527           562           486           664           670           636           503           485           722  | Lunit<br>6687<br>77110<br>7541<br>7958<br>379<br>4922<br>2840<br>2893<br>2920<br>2840<br>2893<br>2920<br>2927<br>2997<br>2997<br>2997<br>2997<br>2997<br>2997   | United States St | 22 22 22 22 22 22 22 22 22 22 22 22 22  | BOO<br>BOO<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1   | €                                 
  | 20<br>20<br>100°C<br>16<br>15.7<br>16<br>15.2<br>14.6<br>14.5<br>14.6<br>14.5<br>14.6<br>14.5<br>14.4<br>14.5<br>14.4<br>14.4<br>14.4<br>14.4<br>14.5<br>14.3<br>14.4  | UV S S S S S S S S S S S S S S S S S S S   | E<br>6.6<br>5.3<br>3.2<br>3.1<br>7.4<br>7.8<br>7.1<br>7.6<br>7.6<br>6.9<br>7<br>6.1<br>7.2<br>6.5<br>6.3<br>6.1  |
| 63       06-Dec-01       100%       Biofuel Test and water injection       v <th<< td=""><td>39<br/>40<br/>41<br/>42<br/>43<br/>44<br/>45<br/>46<br/>47<br/>48<br/>49<br/>51<br/>52<br/>53<br/>55<br/>55<br/>55<br/>55<br/>55<br/>55<br/>55<br/>55<br/>56<br/>57<br/>58<br/>59<br/>60<br/>61</td><td>DATE<br/>22-Oct-93<br/>13-Jan-94<br/>25-Apr-94<br/>07-Jul-94<br/>16-Feb-95<br/>17-Aug-01<br/>30-Aug-01<br/>07-Sep-01<br/>07-Sep-01<br/>25-Sep-01<br/>25-Sep-01<br/>25-Sep-01<br/>25-Sep-01<br/>25-Sep-01<br/>25-Sep-01<br/>14-Sep-01<br/>25-Sep-01<br/>12-Oct-01<br/>19-Oct-01<br/>19-Oct-01<br/>31-Oct-02<br/>02-Nov-01<br/>09-Nov-01<br/>16-Nov-01</td><td>NOW<br/>Fe<br/>92<br/>166<br/>240<br/>252<br/>54<br/>21<br/>24<br/>7<br/>10<br/>12<br/>7<br/>12<br/>15<br/>17<br/>20%<br/>20%<br/>41<br/>48<br/>43</td><td>WNWOWHOUTHOUTHOUTHOUTHOUTHOUTHOUTHOUTHOUTHOUT</td><td>Ni<br/>Ni<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1</td><td>WNNIWNTY AI<br/>2<br/>2<br/>2<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1</td><td>QW 3 Pb<br/>11<br/>13<br/>13<br/>11<br/>13<br/>11<br/>9<br/>7<br/>11<br/>5<br/>7<br/>6<br/>3<br/>7<br/>7<br/>8<br/>10<br/>10<br/>11<br/>10</td><td>Yuuddoog         Cuu           4         4           10         3           4         16           10         3           4         1           1         1           1         1           2         2           3         4           2         3           4         3</td><td>N         6           17         12           13         25           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1</td><td>Harmonic         Harmonic           Ag         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1</td><td>9         9         23         13         10         17         15         8         7         9         9         23         10         17         15         8         7         9         9         7         7         8         7         9         9         9         12         18         12         18         15          <th< td=""><td>NOYOG<br/>B<br/>B<br/>63<br/>28<br/>18<br/>12<br/>102<br/>3<br/>4<br/>2<br/>3<br/>3<br/>4<br/>2<br/>3<br/>3<br/>3<br/>4<br/>4<br/>4<br/>4</td><td>WNIGOS Na<br/>6<br/>14<br/>31<br/>22<br/>13<br/>7<br/>9<br/>5<br/>7<br/>6<br/>5<br/>5<br/>7<br/>6<br/>5<br/>5<br/>7<br/>7<br/>8<br/>20<br/>1955<br/>1977<br/>182</td><td>MNISSELUCI K 10 0 10 10 10 10 10 10 10 10 10 11 13 15 12 12</td><td>MOLYBDEN<br/>MOLYBDEN<br/>MOLYBDEN</td><td>r         r           O         H           O         H           O         H           I         P           I         I</td><td>UN<br/>N<br/>N<br/>N<br/>N<br/>N<br/>N<br/>N<br/>N<br/>N<br/>N<br/>N<br/>N<br/>N<br/>N<br/>N<br/>N<br/>N<br/>N</td><td>M<br/>Ca<br/>Ca<br/>167<br/>1089<br/>1485<br/>1406<br/>296<br/>1832<br/>1742<br/>1733<br/>1806<br/>1737<br/>1755<br/>1613<br/>1615<br/>1613<br/>1615<br/>2002<br/>1842</td><td>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signature<br/>Signat</td><td>Lunit<br/>6687<br/>7110<br/>7541<br/>7958<br/>379<br/>4922<br/>2840<br/>2840<br/>2840<br/>2893<br/>2920<br/>2927<br/>2927<br/>2997<br/>2992<br/>3016<br/>30037<br/>30052<br/>3068<br/>3018</td><td>United 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DATE<br>22-Oct-93<br>13-Jan-94<br>25-Apr-94<br>07-Jul-94<br>16-Feb-95<br>17-Aug-01<br>30-Aug-01<br>07-Sep-01<br>07-Sep-01<br>25-Sep-01<br>25-Sep-01<br>25-Sep-01<br>25-Sep-01<br>25-Sep-01<br>25-Sep-01<br>14-Sep-01<br>25-Sep-01<br>12-Oct-01<br>19-Oct-01<br>19-Oct-01<br>31-Oct-02<br>02-Nov-01<br>09-Nov-01<br>16-Nov-01  
   | NOW<br>Fe<br>92<br>166<br>240<br>252<br>54<br>21<br>24<br>7<br>10<br>12<br>7<br>12<br>15<br>17<br>20%<br>20%<br>41<br>48<br>43   | WNWOWHOUTHOUTHOUTHOUTHOUTHOUTHOUTHOUTHOUTHOUT  | Ni<br>Ni<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1   | WNNIWNTY AI<br>2<br>2<br>2<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                   | QW 3 Pb<br>11<br>13<br>13<br>11<br>13<br>11<br>9<br>7<br>11<br>5<br>7<br>6<br>3<br>7<br>7<br>8<br>10<br>10<br>11<br>10   | Yuuddoog         Cuu           4         4           10         3           4         16           10         3           4         1           1         1           1         1           2         2           3         4           2         3           4         3  
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  | Number         Numer         Numer         Numer <td>NL<br/>Sn<br/>6<br/>7<br/>7<br/>25<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1</td> <td>Harmonic           Ag           0.1           0.2</td> <td>NODITIS<br/>Si<br/>9<br/>9<br/>23<br/>13<br/>10<br/>17<br/>15<br/>8<br/>7<br/>9<br/>9<br/>7<br/>8<br/>7<br/>7<br/>9<br/>9<br/>9<br/>12<br/>18<br/>15<br/>19</td> <td>NOYO<br/>9<br/>8<br/>8<br/>18<br/>12<br/>102<br/>3<br/>4<br/>2<br/>3<br/>3<br/>3<br/>3<br/>2<br/>3<br/>3<br/>4<br/>4<br/>4<br/>4<br/>4<br/>4<br/>4</td> <td>WnICOSS<br/>Na<br/>6<br/>14<br/>31<br/>7<br/>9<br/>5<br/>7<br/>7<br/>6<br/>5<br/>6<br/>7<br/>7<br/>6<br/>5<br/>6<br/>7<br/>7<br/>8<br/>20<br/>1955<br/>1977<br/>182<br/>184</td> <td>MNISSWIGH K 10 0 10 10 10 10 10 10 10 10 10 11 13 15 12 12 14</td> <td>MOTABDEN           5</td> <td>й         н           0         н           00         н           1278         1188           1189         1189           1180         1169           1181         1094           1106         1190           11106         1036           10365         1252           1120         1120           11220         1120</td> <td>UN<br/>N<br/>1233<br/>1451<br/>1385<br/>1411<br/>1155<br/>1272<br/>1266<br/>1318<br/>1306<br/>1252<br/>1152<br/>1356<br/>1307<br/>1338<br/>1398<br/>1405<br/>1428<br/>1554<br/>1541<br/>1399</td> <td>M<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>Signature         Signature           NOT         No           1523         1052           456         386           1414         531           527         562           486         664           670         636           503         485           503         485           503         659           584         584</td> <td>ц<br/>Unit<br/>06887<br/>7110<br/>7541<br/>7554<br/>2640<br/>2840<br/>2840<br/>2892<br/>2920<br/>2927<br/>2957<br/>2957<br/>2957<br/>3016<br/>3037<br/>3052<br/>3069<br/>3088<br/>3016<br/>3014<br/>3114</td> <td>Him Will Will Will Will Will Will Will Wi</td> <td></td> <td>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1<br/>0.1</td> <td>8<br/>6 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<td>S<br/>S<br/>S<br/>100°C<br/>16<br/>16.1<br/>15.7<br/>16<br/>14.5<br/>14.6<br/>14.5<br/>14.6<br/>14.7<br/>14.6<br/>14.7<br/>14.6<br/>14.4<br/>14.4<br/>14.4<br/>14.4<br/>14.4<br/>14.4<br/>14.4</td> <td>U V V V V V V V V V V V V V V V V V V V</td> <td>E<br/>6.6<br/>5.3<br/>3.2<br/>3.1<br/>5.1<br/>7.4<br/>7.6<br/>7.6<br/>7.7<br/>7.6<br/>7.6<br/>6.7<br/>6.1<br/>7.2<br/>6.5<br/>6.3<br/>6.3<br/>7<br/>7.2<br/>6.5<br/>7<br/>7.2<br/>7.2<br/>7.2<br/>7.2<br/>7.2<br/>7.2<br/>7.2</td> | NL<br>Sn<br>6<br>7<br>7<br>25<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1   | Harmonic           Ag           0.1           0.1           0.1           0.1           0.1           0.1  
        0.1           0.2  | NODITIS<br>Si<br>9<br>9<br>23<br>13<br>10<br>17<br>15<br>8<br>7<br>9<br>9<br>7<br>8<br>7<br>7<br>9<br>9<br>9<br>12<br>18<br>15<br>19  
   | NOYO<br>9<br>8<br>8<br>18<br>12<br>102<br>3<br>4<br>2<br>3<br>3<br>3<br>3<br>2<br>3<br>3<br>4<br>4<br>4<br>4<br>4<br>4<br>4  | WnICOSS<br>Na<br>6<br>14<br>31<br>7<br>9<br>5<br>7<br>7<br>6<br>5<br>6<br>7<br>7<br>6<br>5<br>6<br>7<br>7<br>8<br>20<br>1955<br>1977<br>182<br>184   | MNISSWIGH K 10 0 10 10 10 10 10 10 10 10 10 11 13 15 12 12 14   
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M<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | Signature         Signature           NOT         No           1523         1052           456         386           1414         531           527         562           486         664           670         636           503         485           503         485           503         659           584         584  | ц<br>Unit<br>06887<br>7110<br>7541<br>7554<br>2640<br>2840<br>2840<br>2892<br>2920<br>2927<br>2957<br>2957<br>2957<br>3016<br>3037<br>3052<br>3069<br>3088<br>3016<br>3014<br>3114  | Him Will Will Will Will Will Will Will Wi  
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| Objectury for to-bectury for a final diamatrix       Image: Constraint   
  | 39<br>40<br>41<br>42<br>43<br>44<br>45<br>46<br>47<br>48<br>49<br>50<br>51<br>55<br>53<br>54<br>55<br>55<br>57<br>58<br>59<br>60<br>1<br>62<br>63                                | DATE<br>22-Oct-93<br>13-Jan-94<br>25-Apr-94<br>16-Feb-95<br>17-Aug-01<br>30-Aug-01<br>30-Aug-01<br>30-Aug-01<br>14-Sep-01<br>14-Sep-01<br>14-Sep-01<br>25-Sep-01<br>05-Oct-01<br>28-Sep-01<br>05-Oct-01<br>28-Sep-01<br>05-Oct-01<br>19-Oct-01<br>28-Oct-01<br>19-Oct-01<br>109-Nov-01<br>09-Nov-01<br>109-Nov-01<br>100-Nov-01<br>00-Nov-01  | NOU<br>Fe<br>92<br>166<br>240<br>252<br>54<br>21<br>24<br>7<br>10<br>12<br>7<br>12<br>15<br>17<br>12<br>15<br>17<br>20%<br>41<br>48<br>43<br>54<br>1000  | WNIWO2HJCr<br>5<br>13<br>23<br>30<br>2<br>1<br>1<br>2<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1   | Ni<br>Ni<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>2<br>1<br>1<br>1<br>2<br>1<br>1<br>1<br>2<br>1<br>1<br>1<br>2<br>1<br>1<br>1<br>2<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1  | WNNIWNTY AI<br>2<br>2<br>2<br>2<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1              | QV31<br>Pb<br>11<br>13<br>13<br>13<br>11<br>9<br>7<br>11<br>5<br>7<br>6<br>3<br>7<br>7<br>8<br>10<br>10<br>11<br>10<br>12<br>10<br>10<br>12<br>10<br>10  | Y H H H H H H H H H H H H H H H H H H H  
   | NL<br>Sn<br>6<br>17<br>12<br>25<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1  | Number         Number           Ag         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.2         0.1          
0.2         0.1   | NOOJIIS<br>Si<br>9<br>9<br>9<br>23<br>13<br>10<br>17<br>15<br>8<br>7<br>9<br>9<br>7<br>8<br>7<br>9<br>9<br>7<br>8<br>7<br>9<br>9<br>9<br>12<br>18<br>15<br>19<br>9<br>9<br>12<br>2<br>3<br>13<br>10<br>17<br>7<br>9<br>9<br>7<br>8<br>7<br>9<br>9<br>7<br>8<br>7<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9   
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   | 39<br>40<br>41<br>42<br>43<br>44<br>45<br>46<br>47<br>48<br>49<br>50<br>51<br>55<br>53<br>54<br>55<br>55<br>55<br>55<br>55<br>55<br>55<br>55<br>55<br>55<br>55<br>55             | DATE<br>22-Oct-93<br>13-Jan-94<br>25-Apr-94<br>16-Feb-95<br>17-Aug-01<br>30-Aug-01<br>30-Aug-01<br>14-Sep-01<br>25-Sep-01<br>14-Sep-01<br>28-Sep-01<br>28-Sep-01<br>05-Oct-01<br>12-Oct-01<br>19-Oct-01<br>19-Oct-01<br>31-Oct-02<br>02-Nov-01<br>09-Nov-01<br>16-Nov-01<br>30-Nov-01<br>30-Nov-01<br>07-Dec-01<br>07-Dec-01  | NOU<br>Fe<br>92<br>640<br>252<br>54<br>21<br>24<br>7<br>10<br>12<br>7<br>12<br>15<br>17<br>12<br>15<br>17<br>20%<br>41<br>48<br>43<br>54<br>100%<br>51   | WNIWO2HO2 Cr<br>5<br>13<br>23<br>30<br>2<br>1<br>1<br>2<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | Ni<br>Ni<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>2<br>1<br>1<br>1<br>2<br>1<br>1<br>1<br>2<br>1<br>1<br>1<br>2<br>1<br>1<br>1<br>2<br>1<br>1<br>1<br>2<br>1<br>1<br>1<br>1<br>2<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1  | WINNINNTY AI<br>2<br>2<br>2<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                  | QV 3 Pb<br>11<br>13<br>13<br>11<br>9<br>7<br>11<br>5<br>7<br>6<br>3<br>7<br>7<br>8<br>10<br>11<br>10<br>12<br>10<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12   
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Ca<br/>Ca<br/>167<br/>1089<br/>1485<br/>296<br/>1832<br/>296<br/>1732<br/>1742<br/>1733<br/>1806<br/>1733<br/>1806<br/>1733<br/>1806<br/>1733<br/>1731<br/>1615<br/>1615<br/>1615<br/>1613<br/>1615<br/>1675<br/>1795<br/>1842<br/>1842<br/>1842<br/>1845<br/>1750<br/>17750</td><td>Initial         Signature           No         Signature</td><td>Unit<br/>Unit<br/>6687<br/>7110<br/>7541<br/>7958<br/>4922<br/>2840<br/>2893<br/>2920<br/>2927<br/>2927<br/>2927<br/>2927<br/>2927<br/>2927<br/>3016<br/>3037<br/>3037<br/>3037<br/>3037<br/>3037<br/>3052<br/>3068<br/>3116<br/>3141<br/>3158<br/>3158</td><td>Line Control 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        N           0.2         √0.2           √0.2         √0.2           √0.2         √0.2           √0.2         √0.2           √0.2         √0.2           √0.2         √0.2           √0.2         √0.2           √0.2         √0.2           √0.2         √0.2           √0.2         √0.2           √0.2         √0.2           √0.2         √0.2           √0.2         √0.2           √0.2         √0.2</td><td>S<br/>S<br/>S<br/>100°C<br/>16<br/>16.1<br/>15.7<br/>16<br/>14.6<br/>14.5<br/>14.6<br/>14.5<br/>14.6<br/>14.7<br/>14.6<br/>14.7<br/>14.6<br/>14.7<br/>14.4<br/>14.4<br/>14.4<br/>14.4<br/>14.4<br/>14.5<br/>14.3<br/>14.1<br/>14.2<br/>14.1<br/>14.2</td><td>U V S RAD<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40</td><td>E<br/>6.6<br/>5.3<br/>3.2<br/>3.1<br/>5.1<br/>7.4<br/>7.8<br/>7.1<br/>7.6<br/>6.9<br/>7<br/>6.1<br/>7.2<br/>6.5<br/>6.3<br/>6.1<br/>6.3<br/>6.1<br/>6.3<br/>7<br/>7<br/>6.6<br/>7<br/>6.5<br/>7<br/>6.5</td></t<> | m         m           OH         SO           SO         OH           SO         OH           11278         11278           11278         11278           1188         1169           1089         1089           10089         1094           11301         1106           11061         1068           10052         1252           11201         1285           11201         1136           11361         11369           11239         1238   
  | 2<br>N<br>N<br>2<br>N<br>2<br>N<br>1233<br>1451<br>1385<br>1252<br>1152<br>1152<br>1152<br>1152<br>1356<br>1307<br>1338<br>1398<br>1428<br>1398<br>1425<br>1428<br>1399<br>1428<br>1554<br>1554<br>1399  | M C Ca<br>Ca<br>167<br>1089<br>1485<br>296<br>1832<br>296<br>1732<br>1742<br>1733<br>1806<br>1733<br>1806<br>1733<br>1806<br>1733<br>1731<br>1615<br>1615<br>1615<br>1613<br>1615<br>1675<br>1795<br>1842<br>1842<br>1842<br>1845<br>1750<br>17750   | Initial         Signature           No         Signature   
  | Unit<br>Unit<br>6687<br>7110<br>7541<br>7958<br>4922<br>2840<br>2893<br>2920<br>2927<br>2927<br>2927<br>2927<br>2927<br>2927<br>3016<br>3037<br>3037<br>3037<br>3037<br>3037<br>3052<br>3068<br>3116<br>3141<br>3158<br>3158  | Line Control C |   | BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO<br>BOOO | H         N           0.2         √0.2           √0.2         √0.2           √0.2         √0.2           √0.2         √0.2           √0.2         √0.2           √0.2         √0.2           √0.2         √0.2           √0.2         √0.2           √0.2         √0.2           √0.2         √0.2           √0.2         √0.2           √0.2         √0.2           √0.2         √0.2           √0.2         √0.2   
   | S<br>S<br>S<br>100°C<br>16<br>16.1<br>15.7<br>16<br>14.6<br>14.5<br>14.6<br>14.5<br>14.6<br>14.7<br>14.6<br>14.7<br>14.6<br>14.7<br>14.4<br>14.4<br>14.4<br>14.4<br>14.4<br>14.5<br>14.3<br>14.1<br>14.2<br>14.1<br>14.2   | U V S RAD<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40  | E<br>6.6<br>5.3<br>3.2<br>3.1<br>5.1<br>7.4<br>7.8<br>7.1<br>7.6<br>6.9<br>7<br>6.1<br>7.2<br>6.5<br>6.3<br>6.1<br>6.3<br>6.1<br>6.3<br>7<br>7<br>6.6<br>7<br>6.5<br>7<br>6.5  |
| 69         March Baseline redone   
  | $\begin{array}{r} 39\\ 40\\ 41\\ 42\\ 43\\ 44\\ 46\\ 47\\ 48\\ 50\\ 51\\ 55\\ 55\\ 55\\ 55\\ 55\\ 55\\ 55\\ 56\\ 61\\ 62\\ 66\\ 67\\ \end{array}$                                | DATE<br>22-Oct-93<br>13-Jan-94<br>25-Apr-94<br>07-Jul-94<br>16-Feb-95<br>17-Aug-01<br>30-Aug-01<br>30-Aug-01<br>14-Sep-01<br>25-Sep-01<br>25-Sep-01<br>25-Sep-01<br>25-Oct-01<br>12-Oct-01<br>12-Oct-01<br>12-Oct-01<br>12-Oct-01<br>28-Oct-01<br>23-Nov-01<br>06-Dec-01<br>07-Dec-01<br>15-Dec-01<br>15-Dec-01<br>15-Dec-01<br>10-Jan-02   | NON         Fe           92         166           240         252           54         21           24         7           10         12           15         17           20%         17           41         48           43         54           1009         51           60         27           23         24                                | WNIWO2HOCr<br>5<br>13<br>23<br>30<br>2<br>1<br>2<br>1<br>2<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1   | Ni<br>Ni<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1   | WINNIWINIVA AI<br>2<br>2<br>2<br>2<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1           | CPUBIT         CPUBIT           11         13           13         13           11         9           7         6           3         7           6         3           7         7           8         10           11         10           12         10           10         12           10         7  
  | Y         Y           Haddo         O           Cu         4           4         16           10         3           4         1           1         1           1         1           1         1           2         2           3         4           3         2           4         3           2         2   
   | ZLF n<br>6 17 12 13 25 1<br>1 1 1<br>1 1 1<br>1 1<br>1 1<br>1 1<br>1 1<br>1 1<br>1 1  | Y         Y           Ag         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.2         0.1           0.2         0.1           0.2         0.1           0.1         0.2   | NOOJIIS ŠI<br>9 9 23 13 10 17 15 8 7 9 9 23 13 10 17 15 8 7 9 9 9 12 18 15 19 9 12 13 11   
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  | M 0<br>C 2<br>C 2<br>C 2<br>C 3<br>C 4<br>C 4<br>C 4<br>C 4<br>C 4<br>C 4<br>C 4<br>C 4  | Initial         Initial           Mg         Initial           Initial         In  | Unit<br>06687<br>7110<br>7541<br>7958<br>2840<br>2920<br>2927<br>2992<br>3016<br>3037<br>3052<br>2971<br>2992<br>3016<br>3037<br>3052<br>3068<br>3116<br>3141<br>3158<br>3192<br>3192   | H <sub>1</sub> W<br>Oil<br>328<br>423<br>431<br>417<br>379<br>100<br>200<br>251<br>253<br>12<br>20<br>60<br>84<br>108<br>129<br>260<br>284<br>1161<br>180<br>208<br>233<br>250<br>284<br>1<br>28   
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| 70         April Baseline Dynomometer         Avg         7.1  
  | $\begin{array}{r} 39\\ 40\\ 41\\ 42\\ 43\\ 44\\ 44\\ 45\\ 50\\ 51\\ 52\\ 53\\ 54\\ 55\\ 56\\ 60\\ 61\\ 62\\ 63\\ 66\\ 66\\ 66\\ 66\\ 66\\ 66\\ 66\\ 66\\ 66$                     | DATE<br>22-Oct-93<br>13-Jan-94<br>25-Apr-94<br>07-Jul-94<br>16-Feb-95<br>17-Aug-01<br>30-Aug-01<br>30-Aug-01<br>25-Sep-01<br>25-Sep-01<br>25-Sep-01<br>25-Sep-01<br>25-Sep-01<br>25-Sep-01<br>25-Sep-01<br>12-Oct-01<br>12-Oct-01<br>12-Oct-01<br>12-Oct-01<br>12-Oct-01<br>23-Nov-01<br>09-Nov-01<br>09-Nov-01<br>16-Nov-01<br>16-Nov-01<br>30-Nov-01<br>07-Dec-01<br>15-Dec-01<br>15-Dec-01<br>28-Dec-01<br>221-Jan-02  | NON         Pe           92         166           240         252           54         21           24         7           10         12           7         12           15         17           20%         41           43         54           1009         51           60         27           23         29                                 | WnIWO2HJCr<br>5<br>13<br>23<br>300<br>2<br>1<br>2<br>1<br>2<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1  | Image: Nick of the second se | WINNIWINITY AI  | CPYBI         Pb           11         13           13         13           13         7           7         11           5         7           6         3           7         7           8         10           10         11           10         12           10         7           7         7   | Y         Y           Haddo         O           Cu         4           4         16           10         3           4         1           1         1           1         1           1         1           2         2           3         4           3         2           3         4           3         2           2         2           2         2  
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й<br>9<br>11778<br>1188<br>1169<br>1188<br>1169<br>1188<br>1169<br>1188<br>1188<br>1188<br>1189<br>1094<br>1106<br>1094<br>1100<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180<br>1180   | 2<br>N<br>N<br>2n<br>1233<br>1451<br>1385<br>1411<br>1385<br>1272<br>1266<br>1318<br>1306<br>1252<br>1356<br>1307<br>1338<br>1398<br>1398<br>1541<br>1399<br>1349<br>1328<br>1344<br>1349<br>1542  | MDC<br>Ca<br>Ca<br>167<br>1089<br>1485<br>296<br>1832<br>1742<br>1733<br>1731<br>1685<br>1795<br>1613<br>1615<br>1613<br>1615<br>1613<br>1615<br>2002<br>1842<br>1840<br>1750<br>1779<br>2022<br>1842<br>2031                 
  | Signal         Signal           Mg         1523           1523         1562           456         386           386         531           407         533           527         562           466         658           664         670           636         659           584         659           481         474           2500         340   | Ц<br>Unit<br>06887<br>7110<br>7541<br>7958<br>2840<br>2840<br>2840<br>2892<br>2927<br>2927<br>2992<br>3016<br>3037<br>3052<br>3069<br>3016<br>3116<br>3141<br>3158<br>3192<br>3192<br>3226<br>3226  | H/W<br>Oil<br>328<br>423<br>431<br>417<br>379<br>200<br>251<br>253<br>12<br>20<br>60<br>84<br>108<br>208<br>208<br>208<br>208<br>208<br>208<br>208<br>208<br>208<br>2  |  
  | BOO<br>BOO<br>BOO<br>BOO<br>BOO<br>BOO<br>BOO<br>BOO   | 0.2<br>€ VO<br>0.2<br>€ 0.2<br>€ 0.2   | S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S   | Hysical           RAD           40 | E<br>E<br>6.6<br>5.3<br>3.2<br>5.1<br>7.4<br>7.4<br>7.6<br>7.6<br>7.7<br>6.9<br>7<br>6.5<br>6.3<br>7<br>7<br>6.6<br>6.3<br>7<br>7<br>6.6<br>6.3<br>7<br>7<br>6.6<br>6.9<br>7<br>7<br>6.5<br>6.3<br>7<br>7<br>6.9<br>7<br>7<br>6.5<br>6.5<br>7<br>7<br>6<br>7<br>7<br>6<br>7<br>7<br>6<br>7<br>7<br>6<br>7<br>7<br>6<br>7<br>7<br>7<br>6<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7   |

### Appendix F

A lube oil analysis performed on the auxiliary engines after engine testing was completed is included.

	Α	С	D	Е	F	G	Н	J	L	Μ	Ν	0	Ρ	Q	R	S	U	Х	Y	Ζ	AA	AB	AC
1	Oski - Starbo	ard A	uxilia	ry En	gine																		
2	DATE	IRON	CHROMIUM	NICKEL	ALUMINUM	LEAD	COPPER	SILVER	SILICON	BORON	NUIDOS	POTASSIUM	MOLYBDENIUM	PHOSPHORUS	ZINC	CALCIUM	MAGNESIUM	Mi/Hr	Mi/Hr	WTR.	VIS CS	SAE.	TBN
3		Fe	Cr	Ni	AI	Pb	Cu	Ag	Si	В	Na	Κ	Mo	Р	Zn	Ca	Mg	Unit	Oil	% VOL	100'C	GRADE	
10	17-Aug-01	6	1	2	1	5	4	0.1	2	3	4	10	5	1156	1302	1729	511	3145	100	0.2	14.5	40	
11	30-Aug-01	8	1	1	1	6	12	0.1	2	4	6	10	5	1075	1272	1663	437	3087	100	0.2	14	40	7.24
12	07-Sep-01	7	1	1	1	7	69	0.1	3	3	5	10	5	1126	1350	1742	628	3217	160	0.2	14.2	40	7.24
13	14-Sep-01	6	1	2	1	7	3	0.2	4	3	6	10	5	1266	1374	1784	615	3247	160	0.2	14.6	40	5.55
14	25-Sep-01	5	1	1	1	6	1	0.1	5	3	5	10	5	1100	1191	1557	437	3267	7	0.2	14.5	40	6.11
15	28-Sep-01	6	1	1	1	5	2	0.1	5	3	5	10	5	1166	1237	1678	554	3270	10	0.2	14.5	40	7.57
16	05-Oct-01	6	1	1	1	6	3	0.1	2	2	5	10	5	1095	1257	1649	633	3301	40	0.2	14.4	40	7.12
17	12-Oct-01	5	1	1	1	7	3	0.1	2	3	6	10	5	1077	1271	1588	600	3316	56	0.2	14.4	40	7.12
18	19-Oct-01	6	1	1	1	5	4	0.1	3	3	6	10	5	1103	1278	1573	634	3332	72	0.2	14.2	40	7.12
19	26-Oct-01	6	1	1	1	6	4	0.1	2	3	5	10	5	1145	1305	1595	552	3260	79	0.2	14.4	40	7.01
20	31-Oct-02	20%	Bio t	est a	nd w	ater i	nject	ion B	urne	d 586	60 Ga	llons											
21	02-Nov-01	5	1	1	1	6	5	0.1	1	3	6	12	5	1074	1327	1378	432	3348	80	0.2	14.3	40	7.24
22	09-Nov-01	6	1	1	1	5	7	0.1	1	3	6	13	5	1061	1308	1452	459	3362	102	0.2	14.3	40	7.12
23	16-Nov-01	7	1	1	1	7	5	0.1	3	3	6	10	5	1307	1400	1735	675	3366	106	0.2	14.1	40	7.01
24	23-Nov-01	5	1	1	1	3	4	0.1	1	3	6	11	5	1130	1272	1363	338	3380	120	0.2	14.2	40	7.12
25	30-Nov-01	7	1	1	1	7	6	0.1	2	3	5	11	5	1269	1311	1684	527	3383	123	0.2	14.2	40	7.01
26	06-Dec-01	100%	6 Bio	fuel 1	Fest a	and w	ater	injec	tion	Burn	ed 94	07 G	allon	s									
27	07-Dec-01	8	1	1	2	5	7	0.1	2	3	4	11	5	1134	1244	1531	518	3397	177	0.2	14.1	40	7.35
28	15-Dec-01	10	1	1	2	7	6	0.1	3	3	5	11	5	1304	1348	1719	556	3399	139	0.2	13.9	40	7.91
29	28-Dec-01	5	1	1	1	1	2	0.1	5	3	5	10	5	1213	1378	1/9/	535	3400	7	0.2	14.2	40	7.57
30	10-Jan-02	5	1	1	1	4	2	0.1		3	5	10	5	1212	1345	1522	298	3421	22	0.2	14.4	40	
32	Ocki Bort A	vilior																					
52		annai	y Ling	I									Σ	(0	-							-	
			-		_							M	ΠN	RU			Ę						
33	DATE	IRON	CHROMIUN	NICKEL	ALUMINUM	LEAD	COPPER	SILVER	SILICON	BORON	SODIUM	POTASSIL	MOLYBDE	оназона	ZINC	CALCIUM	MAGNESIL	Mi/Hr	Mi/Hr	WTR.	VIS CS	SAE.	TBN
33 34	DATE	H IRON	ည္ CHROMIUN	Z NICKEL		B LEAD	ОСОРРЕК	& SILVER	SILICON	BORON	WNIDOS Na		В мог увре	оназона	ZINC Z	CALCIUM		Mi/Hr Dnit	<u>O</u> Mi/Hr	% VOT WTR.	SD SIN 100'C	uj S GRADE	TBN
33 34 35	DATE	NOAI Le	င္ CHROMIUN	Z NICKEL		de lead	COPPER	B SILVER	© SILICON	BORON	WNIDOS Na	× POTASSIL	В МОГ УВDE	оназона Ф	ZINC Zn	S CALCIUM		JHI/Hr Unit	<u>O</u> Mi/Hr	% VOT WTR.	SD SI All SD SI 100'C	uj S GRADE	TBN
33 34 35 36	ELECTRON ELECTRON	NO <sub>2</sub> Fe	CHROMIUN	NICKEL 1		ه ط الEAD	COPPER 5	Ag 0.1	NOCITICON 4	NONOB B	Na Na	19 × POTASSIL	о ₿ МОГУВDE	OHdSOHd P 1118	ONIZ Zn 1151	S CALCIUM	Mg 1353	JH/iW Unit 2152	JH/I Dil	M VOL	S) S) 100'C 14.8	U GRADE 40	N 81 3.92
33 34 35 36 37	22-Oct-93 13-Jan-94	NO3I Fe	Cr 1 3	NICKEL 1	WINIWIN A	Pb 8 11	COPPER 5	Ag 0.1 0.1	NODITIS SILICON	NOYOB B 79 35	WNIDOS Na 1 6	1 0 1 × POTASSIL	o o S MOLYBDE	OHdSOHd P 1118 1156	ONIZ Zn 1151 1339	Ca Ca 58 681	Mg 1353 930	- H/iW Unit 2152 1107	JH/IW Oil 205 285	MARK WTR	S) S) 100'C 14.8 14.9	GRADE 40	и 2. 3.92 6.1
33 34 35 36 37 38	22-Oct-93 13-Jan-94 25-Apr-94	NO3I Fe 10 14 22	Cr 1 3 2	NICKER 1 1	A ALUMINUM	Pb 8 11 8 1	COPPER Cn 2 4 2	Ag 0.1 0.1	NOOJIS SILICON 4 5 6	NOYOB B 79 35 17	WNIDOS Na 1 6 8	1 0 0 × DOTASSIL		OHdSOHd P 1118 1156 1187	ONIZ Zn 1151 1339 1324	WOLCHCOLO Ca 58 681 1259	Mg 1353 930 422	- Н/јШ Unit 2152 1107 2691	H/IW Oil 205 285 300	MTR.	S) S) 100'C 14.8 14.9 14.4	GRADE	Z H 3.92 6.1 6.66
33 34 35 36 37 38 39	22-Oct-93 13-Jan-94 25-Apr-94 07-Jul-94	NO <sub>2</sub> I Fe 10 14 22 15	Cr 1 3 2 2 2	INICKEL IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	WINIWITA A 1 1 1 1	DEAD 8 11 8 9 0	2 2 4 5 4	Ag 0.1 0.1 0.1	NOCITICON 4 5 6 5 4	NOYOB B 79 35 17 8	WNIGOS Na 1 6 8 7	10 0 0 X DOTASSIL	ער אפטב S MOLYBDE	OHdSOHd P 1118 1156 1187 1182	ON Zn 1151 1339 1324 1334	V Ca Ca 58 681 1259 1338	Mg Mg 1353 930 422 446	-	LH,ijw Oil 205 285 300 200	WIR WIR	S) S) 100'C 14.8 14.9 14.4 14.3 14.5	40 40 40 40	ин 3.92 6.1 6.66 5.88 5.20
33 34 35 36 37 38 39 40	22-Oct-93 13-Jan-94 25-Apr-94 07-Jul-94 16-Feb-95	NO <sub>2</sub> II Fe 10 14 22 15 22 6	Cr 1 2 2 2	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	WNIWNHA 2 1 1 1 1 1 1 1	DFAD PD 8 11 8 9 8 8	2 4 5 4 9	Ag 0.1 0.1 0.1 0.1	NODIRIS SILICON 4 5 6 5 4 1	NOYOB B 79 35 17 8 77	WNIGOS Na 1 6 8 7 7	10 0 0 0 V V V V V V V V V V V V V V V V		OHdSOHd P 1118 1156 1187 1182 999	ONIZ Zn 1151 1339 1324 1334 1120	W I I I I I I I I I I I I I I I I I I I	Mg 1353 930 422 446 1270	H/jW Unit 2152 1107 2691 2981 3024	H/W Oil 205 285 300 200 133	VOL %	S S 100℃ 14.8 14.9 14.4 14.3 14.5	ці SRADE 40 40 40 40 40	Z 3.92 6.1 6.66 5.88 5.39
33 34 35 36 37 38 39 40 41 42	Ш 22-Oct-93 13-Jan-94 25-Арг-94 07-Jul-94 16-Feb-95 17-Aug-01 30-Айг-01	NO3I Fe 10 14 22 5 22 6 9	Cr 1 3 2 2 2 1 1	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	WNIWNWA 2 1 1 1 1 1 1 1 1 1	DF 201 C 201	2 4 5 4 9 4 7	Ag 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	NODITIS Si 4 5 6 5 4 1 2	NOYOB B 79 35 17 8 77 3 4	MNIGOS Na 1 6 8 7 5 5	10 0 0 0 0 K		OHdSOHd P 1118 1156 1187 1182 999 1221 1133	ONIZ Zn 1151 1339 1324 1334 1120 1308 1240	W Ca Ca 58 681 1259 1338 357 1757 1651	NS HIGH AND	H/iW Unit 2152 1107 2691 2981 3024 5946 5876	H/IW Oil 205 285 300 200 133 100	2 LM % VOL	8 100°C 14.8 14.9 14.4 14.3 14.5 14.3 14.3	40 40 40 40 40 40 40 40 40	2 3.92 6.1 6.66 5.88 5.39
33 34 35 36 37 38 39 40 41 42 43	22-Oct-93 13-Jan-94 25-Apr-94 07-Jul-94 16-Feb-95 17-Aug-01 30-Aug-01 07-Sen-01	NOUI Fe 10 14 22 6 9 6	Cr 1 3 2 2 2 1 1 1	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	WNNIWNTY AI	Pb 8 11 8 9 8 5 6 5	2 4 5 4 9 4 7 3	Ag 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	NODIIIS Si 4 5 6 5 4 1 2 3	NOYOB B 79 35 17 8 77 3 4 3	WNIGOS Na 1 6 8 7 5 5 5 5	10 01 01 01 01 01 01 01 01 01 01 01 01 0		OHdSOHd P 1118 1156 1187 1182 999 1221 1133 979	ONIZ Zn 1151 1339 1324 1334 1120 1308 1240 1236	W Ca 58 681 1259 1338 357 1757 1651 1574	NS NG	L L L L L L L L L L L L L L L L L L L	LH Oil 205 285 300 200 133 100 100 225	2 HA	SO         SO           100°C         14.8           14.9         14.4           14.3         14.5           14.3         14.3           14.3         14.3	40 40 40 40 40 40 40 40 40 40 40	8 3.92 6.1 6.66 5.88 5.39 6.9 6.79
33 34 35 36 37 38 39 40 41 42 43 44	22-Oct-93 13-Jan-94 25-Apr-94 07-Jul-94 16-Feb-95 17-Aug-01 30-Aug-01 07-Sep-01 14-Sep-01	NON           Fe           10           14           22           6           9           6           7	VNIWOXHO Cr 1 3 2 2 2 1 1 1 1 1	I I I I I I I I I I I I I I I I I I I	WINNINN A 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DF 2010 C	Y H H H H H H H H H H H H H H H H H H H	Ag 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	NODICON 4 5 6 5 4 1 2 3 3	NONOR B 79 35 17 8 77 3 4 3 3 4 3 3	MNIGOS Na 1 6 8 7 5 5 5 6	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		OHdS OHd P 1118 1156 1187 1182 999 1221 1133 979 1157	ONIZ Zn 1151 1339 1324 1334 1120 1308 1240 1236 1314	Wni Ca 58 681 1259 1338 357 1757 1651 1574 1722	NS Ng Mg 1353 930 422 446 1270 483 420 484 492	Line Line Line Line Line Line Line Line	LH NIN Oil 205 285 300 200 133 100 100 225 214	22 % VOL 0.2 0.2 0.2 0.2	S) S) 100°C 14.8 14.9 14.4 14.3 14.5 14.3 14.3 14.3	40 40 40 40 40 40 40 40 40 40 40 40	8 3.92 6.1 6.66 5.88 5.39 6.9 6.79 6.11
33 34 35 36 37 38 39 40 41 42 43 44 45	22-Oct-93 13-Jan-94 25-Apr-94 07-Jul-94 16-Feb-95 17-Aug-01 30-Aug-01 07-Sep-01 14-Sep-01 25-Sep-01	<mark>NOЫ</mark> Fe 10 14 22 15 22 6 9 6 7 6	VNIWOUHO Cr 1 3 2 2 2 1 1 1 1 1 1 1	NICKET NI 1 1 1 1 1 1 1 1 1 1 1 1	WNIWNIWA AI 2 1 1 1 1 1 1 1 1 1 1 1 1 1	DF 2000 C	2 2 4 5 4 9 4 7 7 3 3 1	Ag 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	NODIIIS Si 4 5 6 5 4 1 2 3 3 5	NOYOG B 79 35 17 8 77 3 4 3 3 4 3 3 4	Wnidos Na Na 1 6 8 7 7 5 5 5 5 6 4	X DOTASSIL	3DRATOW 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	OHds OHds OHd 1118 1156 1187 1182 999 1221 1133 979 1157 1110	O N IZ 1151 1339 1324 1334 1120 1308 1240 1236 1314 1169	Wn Cra Cra 588 681 1259 1338 357 1757 1651 1574 1722 1559	NS 930 422 446 1270 483 420 484 492 520	н	Hiji Oiil 205 285 300 200 133 100 100 225 214 10	2 % VOL 0.2 0.2 0.2 0.2 0.2	S) S) 100°C 14.8 14.9 14.4 14.3 14.5 14.3 14.3 14.3 14.3 14.3 14.7	40 40 40 40 40 40 40 40 40 40 40 40 40 4	3.92 6.1 6.66 5.88 5.39 6.9 6.79 6.11 7.57
33 34 35 367 378 39 40 41 42 43 44 45 46	22-Oct-93 13-Jan-94 25-Apr-94 07-Jul-94 16-Feb-95 17-Aug-01 30-Aug-01 07-Sep-01 14-Sep-01 25-Sep-01 28-Sep-01	NON Fe 10 14 22 5 22 6 9 6 7 6 6 6	VNIWOUHO Cr 1 3 2 2 2 2 1 1 1 1 1 1 1 1	Ni Ni 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WNNIWNIWN Al 2 1 1 1 1 1 1 1 1 1 1 1 1 1	QF Pb 8 11 8 9 8 5 6 5 6 5 6 5 5 5	Y         H           Cu         Cu           2         4           5         4           9         4           7         3           3         1           1         1	Ag 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	NODIIIS Si 4 5 6 5 4 1 2 3 3 5 5 5	NOYOG B B 79 355 177 8 777 3 4 3 4 3 4 3 4 3	Na Na 1 6 8 7 7 5 5 6 4 4 4	ЛISSUD К 10 10 10 10 10 10 10 10 10 10 10 10 10	Solution	OHdSOOH P 1118 1156 1187 1182 999 1221 1133 979 1221 1133 979 1157 1110 1114	U N Zn 1151 1339 1324 1334 1120 1308 1240 1236 1314 1169 1176	WDD Ca 58 681 1259 1338 357 1757 1651 1574 1722 1559 1570	NS BND Ng Ng 1353 930 422 446 1270 483 420 484 492 520 535	Hijiw Unit 2152 1107 2691 2981 3024 5946 5876 6029 6090 6110 6117	Hiw Oil 205 285 300 200 133 100 100 225 214 10 17	0.2 0.2 0.2 0.2 0.2 0.2 0.2	S S S 100'C 14.8 14.9 14.4 14.3 14.3 14.3 14.3 14.3 14.3 14.3 14.3 14.3 14.3 14.3 14.5 14.3 14.5 14.3 14.5 14	40 40 40 40 40 40 40 40 40 40 40 40 40 4	3.92 6.1 6.66 5.88 5.39 6.9 6.79 6.11 7.57 7.57
33 34 35 36 37 38 39 41 42 34 45 46 47	Ц 22-Oct-93 13-Jan-94 25-Арг-94 07-Jul-94 16-Feb-95 17-Aug-01 30-Aug-01 30-Aug-01 30-Aug-01 14-Sep-01 25-Sep-01 28-Sep-01 28-Sep-01 05-Oct-01	NO2I Fe 10 14 22 5 22 6 9 6 7 6 6 6 5	VNIWO2HO Cr 2 2 2 1 1 1 1 1 1 1 1 1	Ni Ni Ni Ni Ni Ni	WNNIWNIY AI 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CFALL CONTROL	2 2 4 5 4 9 4 7 7 3 3 1 1 1 3	Ag 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	NOOJIIS Si 4 5 6 5 4 1 2 3 3 5 5 5 2	NOYOG B 79 355 17 8 77 3 4 3 3 4 3 3 4 3 2	Na Na 1 6 8 7 7 5 5 5 6 4 4 5	NISSE         10	Month         Month <th< th=""><th>OHdSOOH P 1118 1156 1187 1182 999 1221 1133 979 1221 1133 979 1157 1110 1114 1139</th><th>ONIZ Zn 1151 1339 1324 1334 1324 1334 1120 1308 1240 1236 1314 1169 1176 1250</th><th>WDD Ca 58 681 1259 1338 357 1757 1651 1574 1722 1559 1570 1614</th><th>NS NG NG</th><th>Hijiw Unit 2152 1107 2691 2981 3024 5946 5876 6029 6090 6110 6117 6100</th><th>Hiji Oil 205 285 300 200 133 100 100 225 214 10 17 57</th><th>0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2</th><th>S S S 100'C 14.8 14.9 14.4 14.3 14.5 14.3 14</th><th>40 40 40 40 40 40 40 40 40 40 40 40 40 4</th><th>3.92 6.1 6.66 5.88 5.39 6.9 6.79 6.11 7.57 7.57 7.12</th></th<>	OHdSOOH P 1118 1156 1187 1182 999 1221 1133 979 1221 1133 979 1157 1110 1114 1139	ONIZ Zn 1151 1339 1324 1334 1324 1334 1120 1308 1240 1236 1314 1169 1176 1250	WDD Ca 58 681 1259 1338 357 1757 1651 1574 1722 1559 1570 1614	NS NG	Hijiw Unit 2152 1107 2691 2981 3024 5946 5876 6029 6090 6110 6117 6100	Hiji Oil 205 285 300 200 133 100 100 225 214 10 17 57	0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	S S S 100'C 14.8 14.9 14.4 14.3 14.5 14.3 14	40 40 40 40 40 40 40 40 40 40 40 40 40 4	3.92 6.1 6.66 5.88 5.39 6.9 6.79 6.11 7.57 7.57 7.12
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33 34 35 36 37 38 39 41 42 34 45 6 47 48 9	22-Oct-93 13-Jan-94 25-Apr-94 07-Jul-94 16-Feb-95 17-Aug-01 30-Aug-01 07-Sep-01 28-Sep-01 28-Sep-01 28-Sep-01 28-Sep-01 12-Oct-01 19-Oct-01	NO21 Fe 10 14 22 15 22 6 9 6 7 6 6 5 6 8	VNIWO2HD Cr 1 3 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	NICKET Ni 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WINIWINIWINIWINIWINIWINIWINIWINIWINIWIN	QF31 Pb 8 111 8 9 8 5 5 6 5 5 5 5 5 5 6 6	LU CU 2 4 5 5 4 9 9 4 7 7 3 3 3 1 1 1 3 3 4	Ag Ag 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	NODIJIS Si 4 5 6 5 4 1 2 3 3 5 5 2 4 3 3	NOYOG B 79 35 17 8 77 3 4 3 3 4 3 3 4 3 2 2 3 3 3	WNIGOS Na 1 6 8 7 7 5 5 5 5 5 5 6 4 4 5 5 4 4 5 5 4	K         10 </th <th>MOT ABDE       Image: Second se</th> <th>OHdSOHA P 1118 1156 1187 1182 999 1221 1133 979 1157 1110 1114 1139 1120 1193</th> <th>ONN Zn 1151 1339 1324 1334 1120 1308 1240 1236 1314 1169 1176 1250 1307 1321</th> <th>WOUCH Ca 58 681 1259 1338 357 1757 1651 1574 1722 1559 1570 1614 1655 1695</th> <th>NS BNS Mg 1353 930 422 446 1270 483 420 483 420 483 420 520 535 555 707 751</th> <th>LH/W Unit 2152 1107 2691 2981 3024 5946 5876 6029 6090 6110 6117 6100 6117 6100 6178 6194</th> <th>LHAW Oill 205 285 300 200 133 100 100 225 214 10 17 57 78 94</th> <th>% VOL % VOL 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2</th> <th>S         S           100°C         14.8           14.9         14.4           14.3         14.5           14.3         14.3           14.3         14.7           14.6         14.3           14.2         14.1</th> <th>40 40 40 40 40 40 40 40 40 40 40 40 40 4</th> <th>8 3.92 6.1 6.66 5.88 5.39 6.9 6.79 6.11 7.57 7.57 7.12 7.24 7.24</th>	MOT ABDE       Image: Second se	OHdSOHA P 1118 1156 1187 1182 999 1221 1133 979 1157 1110 1114 1139 1120 1193	ONN Zn 1151 1339 1324 1334 1120 1308 1240 1236 1314 1169 1176 1250 1307 1321	WOUCH Ca 58 681 1259 1338 357 1757 1651 1574 1722 1559 1570 1614 1655 1695	NS BNS Mg 1353 930 422 446 1270 483 420 483 420 483 420 520 535 555 707 751	LH/W Unit 2152 1107 2691 2981 3024 5946 5876 6029 6090 6110 6117 6100 6117 6100 6178 6194	LHAW Oill 205 285 300 200 133 100 100 225 214 10 17 57 78 94	% VOL % VOL 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	S         S           100°C         14.8           14.9         14.4           14.3         14.5           14.3         14.3           14.3         14.7           14.6         14.3           14.2         14.1	40 40 40 40 40 40 40 40 40 40 40 40 40 4	8 3.92 6.1 6.66 5.88 5.39 6.9 6.79 6.11 7.57 7.57 7.12 7.24 7.24
33 34 35 36 37 38 39 41 42 43 44 56 47 48 49 57	22-Oct-93 13-Jan-94 25-Apr-94 07-Jul-94 16-Feb-95 17-Aug-01 30-Aug-01 07-Sep-01 14-Sep-01 25-Sep-01 28-Sep-01 05-Oct-01 12-Oct-01 12-Oct-01 26-Oct-01	NOUI Fe 10 14 22 15 22 6 9 6 6 7 6 6 5 6 8 7	Cr 1 3 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	NICKET 1 1 1 1 1 1 1 1 1 1 1 1 1	WNNIWNIWA AI 2 1 1 1 1 1 1 1 1 1 1 1 1 1	QY31 Pb 8 11 8 9 8 5 6 5 5 5 5 5 5 5 5 6 6 6 6 6	Head         Head         OO           Cu         2         4           5         4         9           4         7         7           3         1         1           3         4         4           4         4         4	Ag Ag 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	NODJIJS Si 4 5 6 5 4 1 2 3 3 5 5 2 4 3 2 2	NOYOG B 79 35 17 8 77 3 4 3 3 4 3 3 4 3 3 4 3 3 4 4	WNICOS Na 1 6 8 7 7 5 5 5 5 5 5 6 4 4 5 5 4 5 5 4 5 5 4 5 5 5 5	K         10 </th <th>Second 2       Second 2       <t< th=""><th>Она 999 1221 1133 979 1221 1133 979 1257 1110 1114 1139 1120 1193 1233</th><th>C N N 1151 1339 1324 1334 1120 1308 1240 1308 1240 1308 1240 1314 1169 1176 1250 1307 1321 1309</th><th>WINICITAL Ca 588 681 1259 1338 357 1757 1651 1574 1772 1559 1570 1614 1655 1695 1744</th><th>NS         NS           BUS         Mg           1353         930           422         446           1270         483           420         484           492         555           555         707           751         691</th><th>Line 100 Control 1</th><th>Line (1997) 2015 2015 2000 2000 1333 1000 1000 2255 2144 100 177 577 78 94 118</th><th>22 % VOL 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2</th><th>S S S 100°C 14.8 14.9 14.4 14.3 14.5 14.3 14.3 14.3 14.3 14.3 14.3 14.3 14.3</th><th>U S S A A 0 40 40 40 40 40 40 40 40 40 40 40 40 4</th><th>3.92 6.1 6.66 5.88 5.39 6.9 6.79 6.11 7.57 7.57 7.57 7.57 7.24 7.24 7.24 7.24</th></t<></th>	Second 2       Second 2 <t< th=""><th>Она 999 1221 1133 979 1221 1133 979 1257 1110 1114 1139 1120 1193 1233</th><th>C N N 1151 1339 1324 1334 1120 1308 1240 1308 1240 1308 1240 1314 1169 1176 1250 1307 1321 1309</th><th>WINICITAL Ca 588 681 1259 1338 357 1757 1651 1574 1772 1559 1570 1614 1655 1695 1744</th><th>NS         NS           BUS         Mg           1353         930           422         446           1270         483           420         484           492         555           555         707           751         691</th><th>Line 100 Control 1</th><th>Line (1997) 2015 2015 2000 2000 1333 1000 1000 2255 2144 100 177 577 78 94 118</th><th>22 % VOL 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2</th><th>S S S 100°C 14.8 14.9 14.4 14.3 14.5 14.3 14.3 14.3 14.3 14.3 14.3 14.3 14.3</th><th>U S S A A 0 40 40 40 40 40 40 40 40 40 40 40 40 4</th><th>3.92 6.1 6.66 5.88 5.39 6.9 6.79 6.11 7.57 7.57 7.57 7.57 7.24 7.24 7.24 7.24</th></t<>	Она 999 1221 1133 979 1221 1133 979 1257 1110 1114 1139 1120 1193 1233	C N N 1151 1339 1324 1334 1120 1308 1240 1308 1240 1308 1240 1314 1169 1176 1250 1307 1321 1309	WINICITAL Ca 588 681 1259 1338 357 1757 1651 1574 1772 1559 1570 1614 1655 1695 1744	NS         NS           BUS         Mg           1353         930           422         446           1270         483           420         484           492         555           555         707           751         691	Line 100 Control 1	Line (1997) 2015 2015 2000 2000 1333 1000 1000 2255 2144 100 177 577 78 94 118	22 % VOL 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	S S S 100°C 14.8 14.9 14.4 14.3 14.5 14.3 14.3 14.3 14.3 14.3 14.3 14.3 14.3	U S S A A 0 40 40 40 40 40 40 40 40 40 40 40 40 4	3.92 6.1 6.66 5.88 5.39 6.9 6.79 6.11 7.57 7.57 7.57 7.57 7.24 7.24 7.24 7.24
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33 34 35 36 37 38 39 40 41 42 344 45 46 47 48 9 50 51 52 51	22-Oct-93 13-Jan-94 25-Apr-94 16-Feb-95 17-Aug-01 30-Aug-01 30-Aug-01 14-Sep-01 25-Sep-01 28-Sep-01 28-Sep-01 28-Sep-01 12-Oct-01 12-Oct-01 12-Oct-01 12-Oct-01 12-Oct-01 12-Oct-02 02-Nov-01 02-Nov-01	NOUI Fe 10 14 22 6 9 6 7 6 6 5 6 8 7 6 6 8 7 8 7 20%	VNIWOHHO Cr 1 3 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	MNNINNIN AI 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	QF Pb 8 11 8 9 8 5 6 5 5 6 5 5 5 5 6 6 6 6 6 8 7 5 5 6 6 6 6 7 5 5 6 6 6 7 5 5 5 6 6 5 5 5 6 6 6 5 5 5 6 6 6 7 5 7 6 7 7 7 7	2 2 4 5 4 9 4 7 7 3 3 1 1 1 3 3 4 4 4 0 7 7 3 3 1 1 1 3 3 4 4 4 9 1 9 4 7 7 3 3 1 1 1 9 4 7 7 3 3 1 1 9 9 4 7 7 9 9 4 7 7 9 9 9 9 9 4 7 7 9 9 9 9	Har         Ag           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1           0.1         0.1	NOOJISSI Si 4 5 6 5 4 1 2 3 3 5 5 5 2 4 3 2 2 4 3 2 2 4 3 2 2 4 3 2 2 2 4 3 2 5 5 5 2 2 4 3 5 5 5 2 2 4 5 5 2 2 1 1 2 2 3 3 5 5 5 2 2 2 3 3 5 5 2 3 3 5 5 5 2 2 3 3 5 5 5 2 3 3 5 5 5 5	NONOR B 79 35 17 8 77 3 4 3 4 3 4 3 2 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 5 5 5 5	WNICOS Na 1 1 6 8 7 7 5 5 5 6 4 4 5 5 6 4 4 5 5 6 6 4 4 5 5 5 5 6 6 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	MISSIN         Model         Model <t< th=""><th>MOLYBDE         0</th><th>OH GO GO H 1118 1156 1187 1187 1187 1187 1187 1187 1193 1157 1110 1117 1110 1117 1110 1117 1110 1113 1123 1233</th><th>O 2 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7</th><th>Wn C C C C C C C C C C C C C C C C C C C</th><th>ISI         ISI           INS         INO           Mg         Ino           1353         930           422         Ino           446         Ino           422         Ino           446         Ino           483         Ino           484         Ino           525         Ino           535         Ino           501         Ino           638         Ino</th><th>L L L L L L L L L L L L L L</th><th>HIW OII 205 285 300 200 100 100 225 214 10 17 77 77 78 94 118 123</th><th>2 % VOL 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2</th><th>8 9 100°C 14.8 14.9 14.4 14.3 14.5 14.3 14.5 14.3 14.1 14.3 14.1 14.3 14.1 14.3 14.1 14.3 14.1 14.2 14.1 14.2 14.1 14.2 14.1 14.2 14.1 14.2 14.1 14.2 14.1 14.2 14.1 14.2 14.1</th><th>40 40 40 40 40 40 40 40 40 40 40 40 40 4</th><th>3.92 6.1 6.66 5.88 5.39 6.9 6.79 6.79 6.79 6.79 7.57 7.57 7.57 7.57 7.57 7.57 7.24 7.24 7.24 7.01</th></t<>	MOLYBDE         0	OH GO GO H 1118 1156 1187 1187 1187 1187 1187 1187 1193 1157 1110 1117 1110 1117 1110 1117 1110 1113 1123 1233	O 2 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Wn C C C C C C C C C C C C C C C C C C C	ISI         ISI           INS         INO           Mg         Ino           1353         930           422         Ino           446         Ino           422         Ino           446         Ino           483         Ino           484         Ino           525         Ino           535         Ino           501         Ino           638         Ino	L L L L L L L L L L L L L L	HIW OII 205 285 300 200 100 100 225 214 10 17 77 77 78 94 118 123	2 % VOL 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	8 9 100°C 14.8 14.9 14.4 14.3 14.5 14.3 14.5 14.3 14.1 14.3 14.1 14.3 14.1 14.3 14.1 14.3 14.1 14.2 14.1 14.2 14.1 14.2 14.1 14.2 14.1 14.2 14.1 14.2 14.1 14.2 14.1 14.2 14.1	40 40 40 40 40 40 40 40 40 40 40 40 40 4	3.92 6.1 6.66 5.88 5.39 6.9 6.79 6.79 6.79 6.79 7.57 7.57 7.57 7.57 7.57 7.57 7.24 7.24 7.24 7.01
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33 34 35 96 37 38 39 42 14 42 43 44 45 46 47 48 49 50 51 52 53 54 44	22-Oct-93 13-Jan-94 25-Apr-94 07-Jul-94 16-Feb-95 17-Aug-01 30-Aug-01 07-Sep-01 28-Sep-01 25-Sep-01 28-Sep-01 25-Sep-01 28-Sep-01 12-Oct-01 12-Oct-01 12-Oct-01 12-Oct-01 12-Oct-01 12-Oct-01 10-Oct-01 26-Oct-01 10-Oct-01 28-Sep-01 02-Nov-01 09-Nov-01 16-Nov-01 16-Nov-01	NO2IFE 10 14 22 6 9 6 7 6 6 7 6 6 8 7 20% 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 8 7 8 8 7 8 8 7 8 8 8 7 8 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8	VNW02HD Cr 1 3 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NOKEN NI 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MNNIWNIWA A 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CHART	Y         Y           Cu         2           4         5           4         7           3         3           1         1           3         3           4         4           4         4           5         4	Ag 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	NODITIS Si 4 5 6 6 5 4 1 2 3 3 5 5 5 2 4 3 2 2 4 3 2 2 2 2 2 2 2 2	NO2OG B 79 35 17 3 4 3 4 3 3 4 3 3 4 4 3 3 3 4 4 5 8 6 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	WNIGOS Na 1 6 8 7 5 5 5 6 4 4 5 5 6 4 5 5 6 6 6 6 7 7 5 5 6 6 4 4 5 5 6 6 6 6 8 7 7 5 5 6 6 6 8 7 7 5 5 6 6 6 8 7 7 7 5 5 6 6 6 6 8 7 7 7 5 5 6 6 6 8 7 7 7 5 5 6 6 6 6 8 7 7 7 5 5 6 6 6 6 8 7 7 7 5 5 6 6 6 6 8 7 7 7 5 5 6 6 6 6 8 7 7 7 7 7 7 7 7 7 7 7 7 7	ΠΟΙΟΙΑ         Κ         ΠΟ         ΠΟ <th< th=""><th>BOR ADDE S 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5</th><th>OH A SO H I 1118 11156 11187 11182 11133 9999 11221 11133 979 1157 1110 11139 1120 11133 1130 1199 11924</th><th>ONN N Zn 1151 1339 1324 1334 1324 1334 1240 1236 1314 1250 1307 1321 1309 1400 1400 1371</th><th>Min Crassing Crassing</th><th>ISB         ISB           NO         W           Mg         1353           930         422           446         1270           483         422           484         492           520         535           5555         707           751         691           638         499           477         270</th><th>н</th><th>Line 2005 2855 3000 200 1333 1000 1000 2255 2114 100 177 78 94 118 123 147 177 777</th><th>2</th><th>SO         SO           100°C         14.0           14.8         14.3           14.5         14.3           14.3         14.3           14.3         14.3           14.3         14.3           14.3         14.3           14.4         14.3           14.3         14.3           14.4         14.3           14.2         14.1           14.2         14.1           14.1         14.2           14.1         14.2</th><th>40 40 40 40 40 40 40 40 40 40 40 40 40 4</th><th>Z 9.92 6.1 6.66 5.88 6.9 6.79 6.79 6.11 7.57 7.57 7.24 7.24 7.24 7.24 7.24 7.24 7.24 7.21 7.12 7.12 7.21</th></th<>	BOR ADDE S 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	OH A SO H I 1118 11156 11187 11182 11133 9999 11221 11133 979 1157 1110 11139 1120 11133 1130 1199 11924	ONN N Zn 1151 1339 1324 1334 1324 1334 1240 1236 1314 1250 1307 1321 1309 1400 1400 1371	Min Crassing	ISB         ISB           NO         W           Mg         1353           930         422           446         1270           483         422           484         492           520         535           5555         707           751         691           638         499           477         270	н	Line 2005 2855 3000 200 1333 1000 1000 2255 2114 100 177 78 94 118 123 147 177 777	2	SO         SO           100°C         14.0           14.8         14.3           14.5         14.3           14.3         14.3           14.3         14.3           14.3         14.3           14.3         14.3           14.4         14.3           14.3         14.3           14.4         14.3           14.2         14.1           14.2         14.1           14.1         14.2           14.1         14.2	40 40 40 40 40 40 40 40 40 40 40 40 40 4	Z 9.92 6.1 6.66 5.88 6.9 6.79 6.79 6.11 7.57 7.57 7.24 7.24 7.24 7.24 7.24 7.24 7.24 7.21 7.12 7.12 7.21
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33 34 55 66 77 38 99 44 142 43 44 45 46 47 89 49 55 162 155 66 17 155 165 155 165 155 155 155 155 155 155	Ц 22-Oct-93 13-Jan-94 25-Арг-94 07-Jul-94 16-Feb-95 17-Aug-01 30-Aug-01 30-Aug-01 25-Sep-01 14-Sep-01 28-Sep-01 28-Sep-01 12-Oct-01 12-Oct-01 12-Oct-01 12-Oct-01 12-Oct-01 12-Oct-01 12-Oct-01 12-Oct-01 131-Oct-02 02-Nov-01 31-Oct-02 02-Nov-01 30-Nov-01 30-Nov-01 30-Nov-01	NOUI Fe 10 14 22 5 6 9 6 7 6 6 7 6 6 5 6 8 7 20% 8 7 8 6 9 100	CHROMINY CC 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1	Ni Ni 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MINIWINA AI 2 1 1 1 1 1 1 1 1 1 1 1 1 1	QF3 Pb 8 11 8 9 8 5 6 5 5 5 5 5 5 5 5 5 6 6 6 5 5 5 5 5	Y         Y           Cu         Cu           2         4           5         4           9         4           7         3           3         1           1         3           3         4           4         4           5         4           7         7           3         3           4         4           5         4           7         7	Hanning Control (1970) Hanning Control (1970) Hannin	NOOTIIS Si 4 5 6 5 4 1 2 3 3 5 5 5 2 4 3 2 2 2 2 2 2 2 2 2 2 2 2 2	NONO8 B 79 35 17 8 77 3 4 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3	WnIgos Na 1 1 6 8 7 7 5 5 5 5 6 4 4 4 5 5 6 6 4 4 5 5 6 6 6 6	NISSHICK         10         11         11         10         10         10         10         10         10         10         10         10         10         <		OH B S OH H I 1118 1156 1187 1182 1187 1182 1187 1182 1193 1221 1110 1110 1110 1110 1110 1193 1233 1130 1130 1130 1130 1130 1130 113	ON NN Zn 1151 1339 1324 1334 1240 1308 1240 1308 1240 1308 1230 1314 1309 1321 1321 1321 1321 1321 1321 1321 132	¥n O V Ca 58 681 1259 1338 357 1757 1651 1574 1559 1559 1550 1614 1695 1744 1695 1744 1695 1744	IG         SO           1353         930           422         446           1270         483           422         535           555         555           707         751           638         499           490         490	L Unit 2152 1107 2691 2981 5946 5876 6029 6090 6110 6117 6100 6194 6100 6232 6247 6247 6336	LHWW Oil 205 285 3000 200 100 100 225 214 10 10 17 57 78 94 118 123 147 177 202 236	0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	S         S           100°C         1           14.8         14.9           14.4         14.3           14.3         14.3           14.3         14.3           14.4         14.3           14.3         14.7           14.6         14.3           14.2         14.1           14.2         14.1           14.3         14.2           14.1         14.2           13.8         13.6	40 40 40 40 40 40 40 40 40 40 40 40 40 4	Z 3.92 6.1 6.66 5.88 5.39 6.9 6.79 6.79 6.71 7.57 7.57 7.24 7.01 7.01 7.01 7.12 7.01 7.12 7.01 7.12
33 34 55 363 73 383 34 44 44 45 46 47 48 49 55 15 15 15 15 15 15 15 15 15 15 15 15	Ц 22-Oct-93 13-Jan-94 25-Арг-94 16-Feb-95 17-Aug-01 30-Aug-01 30-Aug-01 25-Sep-01 25-Sep-01 25-Sep-01 25-Sep-01 25-Sep-01 25-Oct-01 12-Oct-01 12-Oct-01 12-Oct-01 12-Oct-01 12-Oct-01 13-Oct-02 02-Nov-01 09-Nov-01 16-Nov-01 13-Nov-01 30-Nov-01 07-Dec-01	NOUL Fe 10 14 22 5 6 9 6 7 6 6 7 6 6 7 6 6 7 8 7 8 7 8 7 8 6 9 1000 10	Cr 1 3 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	Image: Second	WINIWIN AI 2 1 1 1 1 1 1 1 1 1 1 1 1 1	QV3 Pb 8 11 8 9 8 5 6 5 5 5 5 6 6 5 5 5 5 6 6 6 5 5 5 5	Y         Y           Cu         Cu           2         4           5         4           9         4           7         3           3         1           1         3           3         4           4         4           5         4           7         7           3         3           4         4           5         4           7         7           7         7           7         7           7         7           8         7	H Ag Ag 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	NOOJIIIS Si 4 5 6 5 4 4 5 5 5 2 4 3 3 5 5 5 2 4 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	NONOG B 79 35 17 8 77 3 4 3 3 4 3 3 4 3 3 4 4 3 3 3 4 4 5 8 6 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	WnIGOS Na 1 6 8 7 7 5 5 5 6 4 4 5 5 6 6 4 4 5 5 6 6 6 6 6 6 4 4 5 5 5 6 6 4 4 5 5 5 6 6 4 4 5 5 5 6 6 6 7 7 7 7 7 5 5 5 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7	Instant         Instant <thinstant< th=""> <thinstant< th=""> <thi< th=""><th>Sector     Sector     Sector     Sector     Sector       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1</th><th>OH 600 600 600 600 600 600 600 600 600 60</th><th>ONN Zn 1151 1339 1324 1120 1308 1240 1236 1314 1200 1308 1314 1309 1169 1176 1307 1307 1307 1307 1309 1400 1400 1400 1400 1401 1371 1333 1255</th><th>Mn         Classifier           Ca         58         681           58         681         1259           337         7757         1651           1574         1722         1550           1570         1614         1655           1644         1665         1744           1613         1519         1609           1418         1496         1516</th><th>IIG         SO           IIG         SO</th><th>Line 100 - 1</th><th>н н н н н н н н н н н н н н</th><th>2 % VOL % VOL 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2</th><th>8 9 100°C 14.8 14.9 14.3 13.8</th><th>ці колорови колоров</th><th>2 3.92 6.1 6.66 5.88 5.39 6.9 6.79 6.79 6.79 6.79 6.79 7.12 7.24 7.24 7.01 7.12 7.01 7.01 7.01 7.01 7.01 7.01 7.01</th></thi<></thinstant<></thinstant<>	Sector     Sector     Sector     Sector     Sector       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1	OH 600 600 600 600 600 600 600 600 600 60	ONN Zn 1151 1339 1324 1120 1308 1240 1236 1314 1200 1308 1314 1309 1169 1176 1307 1307 1307 1307 1309 1400 1400 1400 1400 1401 1371 1333 1255	Mn         Classifier           Ca         58         681           58         681         1259           337         7757         1651           1574         1722         1550           1570         1614         1655           1644         1665         1744           1613         1519         1609           1418         1496         1516	IIG         SO	Line 100 - 1	н н н н н н н н н н н н н н	2 % VOL % VOL 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	8 9 100°C 14.8 14.9 14.3 13.8	ці колорови колоров	2 3.92 6.1 6.66 5.88 5.39 6.9 6.79 6.79 6.79 6.79 6.79 7.12 7.24 7.24 7.01 7.12 7.01 7.01 7.01 7.01 7.01 7.01 7.01
33 34 55 363 77 38 39 42 44 44 45 46 47 48 49 65 15 82 53 45 55 66 57 88 59	22-Oct-93 13-Jan-94 25-Apr-94 07-Jul-94 16-Feb-95 17-Aug-01 30-Aug-01 30-Aug-01 25-Sep-01 25-Sep-01 25-Sep-01 25-Sep-01 25-Sep-01 25-Sep-01 25-Sep-01 25-Sep-01 25-Sep-01 12-Oct-01 19-Oct-01 19-Oct-01 19-Oct-01 31-Oct-02 02-Nov-01 09-Nov-01 09-Nov-01 06-Dec-01 07-Dec-01 07-Dec-01	NO21 Fe 10 14 22 6 9 6 7 6 6 6 5 6 6 7 7 6 6 6 7 7 8 6 9 9 6 7 7 8 6 9 9 6 7 7 6 6 7 7 8 7 8 6 9 10 0 9 10 10 14 22 15 22 6 9 9 6 7 7 7 6 9 16 9 16 9 16 9 16 9 1	VINIWO2HO Cr 1 3 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	Image: Second	WINIWIN AI 2 1 1 1 1 1 1 1 1 1 1 1 1 1	QF3 Pb 8 11 8 9 8 5 6 5 5 5 5 5 5 5 5 6 6 6 5 5 5 5 5 5	Y         Y <thy< th=""> <thy< th=""> <thy< th=""> <thy< th=""></thy<></thy<></thy<></thy<>	Handright Ageneration (Constraint) (Constrai	NOOJIIIS Si 4 5 6 5 4 4 5 6 5 5 2 4 4 3 3 5 5 5 2 4 3 3 5 5 2 2 4 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	NONOG B 79 35 17 8 77 3 4 3 3 4 3 3 4 3 3 4 4 3 3 3 3 3 3	WnICOS Na 1 6 8 7 7 5 5 5 6 4 4 5 5 6 6 4 4 5 5 6 6 4 4 5 5 6 6 4 4 5 5 5 6 6 4 4 5 5 5 6 6 6 7 7 7 7 5 5 5 6 6 6 7 7 7 7 5 5 5 6 6 6 7 7 7 7 7 7 7 7 7 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6	NISSELOA K 10 10 10 10 10 10 10 10 10 10 10 10 10	Sector     Sector <th>OH 600 600 600 600 600 600 600 600 600 60</th> <th>O N N Zn 1151 1339 1324 1334 1120 1308 1240 1308 1236 1314 1169 1376 1307 1321 1309 1400 1371 1333 1255 1193 1245</th> <th>M Ca Ca 58 681 1259 1338 357 1757 1651 1574 1757 1574 1575 1574 1614 1615 1614 1615 1614 1615 1744 1613 1519 1609 1744</th> <th>IIG         B           IIG         SOFW           Mg         IIG           IIG         IIIG           IIG</th> <th>Line 100 100 100 100 100 100 100 100 100 10</th> <th>Line 100 Control 1</th> <th>2 % VOL % VOL 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2</th> <th>S S S S S S S S S S S S S S S S S S S</th> <th>40 40 40 40 40 40 40 40 40 40</th> <th>Z 9 3.92 6.1 6.66 5.88 5.39 6.9 6.79 6.79 6.77 6.77 7.757 7.57 7.24 7.24 7.01 7.24 7.01 7.12 7.01 7.21 7.01 7.24 7.01</th>	OH 600 600 600 600 600 600 600 600 600 60	O N N Zn 1151 1339 1324 1334 1120 1308 1240 1308 1236 1314 1169 1376 1307 1321 1309 1400 1371 1333 1255 1193 1245	M Ca Ca 58 681 1259 1338 357 1757 1651 1574 1757 1574 1575 1574 1614 1615 1614 1615 1614 1615 1744 1613 1519 1609 1744	IIG         B           IIG         SOFW           Mg         IIG           IIG         IIIG           IIG	Line 100 100 100 100 100 100 100 100 100 10	Line 100 Control 1	2 % VOL % VOL 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	S S S S S S S S S S S S S S S S S S S	40 40 40 40 40 40 40 40 40 40	Z 9 3.92 6.1 6.66 5.88 5.39 6.9 6.79 6.79 6.77 6.77 7.757 7.57 7.24 7.24 7.01 7.24 7.01 7.12 7.01 7.21 7.01 7.24 7.01
33 34 35 36 37 38 39 40 41 42 43 44 45 46 7 48 49 50 51 52 53 54 55 66 57 58 59 60	22-Oct-93 13-Jan-94 25-Apr-94 07-Jul-94 16-Feb-95 17-Aug-01 30-Aug-01 07-Sep-01 28-Sep-01 28-Sep-01 28-Sep-01 28-Sep-01 26-Oct-01 19-Oct-01 12-Oct-01 12-Oct-01 12-Oct-01 13-Oct-02 02-Nov-01 09-Nov-01 06-Dec-01 07-Dec-01 15-Dec-01 28-Dec-01	NOUL Fe 10 14 22 6 9 6 7 6 6 6 5 6 6 8 7 20% 8 7 8 6 9 9 0 6 7 6 6 8 7 7 8 6 9 9 0 6 7 6 6 6 5 6 8 7 7 8 8 7 8 8 6 9 0 0 10 10 10 10 10 10 10 10 10 10 10 10	VNIWO2HO Cr 1 3 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	Ni Ni 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WNNIWNTY AI	QV31Pb 8 11 8 9 8 5 6 5 5 5 6 6 5 5 5 5 6 6 6 5 5 5 5 6 6 6 5 5 5 6 6 5 5 5 6 6 5 5 5 6 6 5 5 5 6 6 5 5 6 6 5 5 6 6 5 5 6 6 5 5 6 6 5 5 6 6 5 5 6 6 5 5 6 6 6 5 5 6 6 5 5 6 6 5 5 6 6 6 5 5 6 6 5 5 6 6 5 5 6 6 5 5 6 6 5 5 6 6 5 5 6 6 5 5 6 6 5 5 5 6 6 5 5 5 6 6 5 5 5 6 6 5 5 5 5 5 6 6 5	Cu 2 4 5 4 9 4 4 7 7 3 3 1 1 1 3 3 1 1 1 3 3 4 4 7 7 3 3 4 4 4 7 7 7 ater 8 8 8 2	Handreich Ag 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	NOOJIISSI Si 4 5 5 5 5 5 4 1 2 3 3 5 5 5 2 4 3 3 5 5 5 2 2 4 3 3 2 2 2 2 2 2 2 2 2 2 5 5	NOYOG B 79 35 17 3 4 3 4 3 4 3 4 3 3 4 4 3 3 3 4 4 3	MnIGOS Na 1 1 6 8 7 7 5 5 5 5 6 4 4 5 5 6 6 4 4 5 5 5 6 6 4 4 5 5 5 6 6 4 4 5 5 5 6 6 4 4 5 5 5 5 6 6 4 4 5 5 5 5 6 6 4 4 5 5 5 5 6 6 4 4 5 5 5 5 6 6 4 4 5 5 5 5 6 6 4 4 5 5 5 5 6 6 4 4 5 5 5 5 6 6 4 4 5 5 5 5 6 6 4 4 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6	NISSE         10         11         11         11         10         0         10         11         1	2007 ABDE 2007	OH 800 999 1221 1113 1157 1110 1221 1133 979 1221 1133 1157 1110 1117 1110 1113 1233 1130 1193 1130 1199 1034 1199 1045 <b>\$</b> <b>\$</b> <b>\$</b> <b>\$</b> <b>\$</b> <b>\$</b> <b>\$</b> <b>\$</b> <b>\$</b> <b>\$</b>	O N N 1151 1339 1324 1334 1334 1120 1308 1240 1308 1240 1314 1169 1176 1250 1307 1307 1307 1307 1307 1307 1307 130	M Ca Ca 58 681 1259 1338 357 1757 1651 1574 1722 1559 1570 1613 1519 1609 1744 1519 1609 1418 1655 1695 1744 1519 1613 1519 1613 1519 1613 1519 1613 1519 1764 1757 1764 1764 1764 1764 1764 1764 1764 176	ISB         SOL           1353         930           1353         930           422         484           426         483           420         520           555         555           555         565           638         499           477         379           490         493           437         469           5568         568	Line 100 100 100 100 100 100 100 100 100 10	H <sub>MW</sub> Oil 205 285 300 100 100 225 214 10 17 57 78 94 118 147 177 202 236 232 249 293 2	2 % VOL 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	8 9 9 100°C 14.8 14.9 14.4 14.3 14.5 14.3 14.5 14.3 14.7 14.6 14.3 14.7 14.6 14.3 14.7 14.2 14.1 14.2 14.1 14.2 13.8 13.6 13.3 13.3	ui         constraints           GRADE         -           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40           40         40	Z 9.92 6.1 6.66 5.88 6.9 6.79 6.79 6.11 7.57 7.57 7.24 7.24 7.01 7.12 7.01 7.12 7.01 7.24 7.24 7.24
33 34 55 66 77 38 99 40 41 42 43 44 45 46 47 48 49 56 55 151 55 151 55 155 155 155 155 155	<u>н</u> 22-Oct-93 13-Jan-94 25-Арг-94 07-Jul-94 16-Feb-95 17-Aug-01 30-Aug-01 30-Aug-01 07-Sep-01 28-Sep-01 28-Sep-01 28-Sep-01 28-Sep-01 28-Sep-01 28-Sep-01 28-Sep-01 12-Oct-01 31-Oct-02 02-Nov-01 09-Nov-01 30-Nov-01 30-Nov-01 16-Nov-01 23-Nov-01 00-Nov-01 16-Dec-01 07-Dec-01 15-Dec-01 10-Jan-02	NO2 Fe 10 14 22 5 22 6 9 6 7 6 6 7 6 6 5 6 8 7 20% 8 7 20% 8 7 8 6 9 9 100 10 16 6 7 7 6 7 6 7 6 7 8 7 8 7 8 7 7 8 7 7 8 7 7 9 7 6 7 7 6 9 7 6 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 8 7	VINIWOUHD Cr 1 3 2 2 2 2 2 2 2 2 2 2 2 2 2	Ni Ni 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WNNIWNTY AI	CF 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Cu 2 4 5 4 9 9 4 7 3 3 3 1 1 1 3 3 4 4 4 4 4 4 4 5 4 4 7 7 8 8 8 8 2 2 2	Ag 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	NOOJIIIS Si Si Si S S S S S S S S S S S S S	NOYOG B 79 35 17 3 4 3 4 3 4 3 4 3 3 4 4 d 586 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	MNIGOS Na 1 6 8 7 7 5 5 5 6 4 4 5 5 5 6 6 4 4 5 5 5 6 6 4 4 5 5 5 6 6 4 4 5 5 5 5 6 6 4 4 5 5 5 5 6 6 4 4 5 5 5 5 6 6 4 4 5 5 5 5 6 6 4 4 5 5 5 5 6 6 4 4 5 5 5 5 6 6 4 4 5 5 5 5 6 6 4 4 5 5 5 5 6 6 4 4 5 5 5 5 6 6 4 4 5 5 5 5 6 6 6 4 4 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6	NISSPIC         K         10         11 <th< td=""><td>S S S S S S S S S S S S S S S S S S S</td><td>OH 600 600 600 700 700 700 700 700 700 700</td><td>O N N 2n 1151 1334 1324 1334 1120 1308 1314 1126 13314 1126 1331 1176 1250 1307 1321 1309 1400 1371 1333 1255 1312 1345 1345</td><td>Example 2 in the second second</td><td>ISB         NO           1353         930           1353         930           422         446           1270         446           422         446           422         535           555         707           751         681           638         497           437         469           568         542</td><td>Unit 2152 1107 2691 3024 5946 6029 6010 6117 6100 6117 6100 6117 6100 6117 6100 6117 6330 6349 6339 6397 6428</td><td>LHAW OII 205 285 300 200 133 100 100 225 214 10 17 57 8 94 118 123 147 177 202 236 249 223 35</td><td>2 % VOL 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2</td><td>8 9 100°C 14.8 14.9 14.4 14.3 14.5 14.3 14.5 14.3 14.7 14.6 14.3 14.7 14.6 14.3 14.7 14.6 14.3 14.7 14.6 14.3 14.7 14.8 14.9 14.3 14.3 14.5 14.1 14.5 13.8 14.2 13.5 13.3 14.4 14.1 14.4 14.4 14.4 14.4 14.4 14.4 14.4</td><td>40 40 40 40 40 40 40 40 40 40 40 40 40 4</td><td>2 3.92 6.1 6.66 5.88 5.39 6.79 6.79 6.79 6.79 7.72 7.72 7.72 7.24 7.24 7.01 7.01 7.01 7.12 7.12 7.01 7.12 7.12 7.01 7.24 7.24 7.24</td></th<>	S S S S S S S S S S S S S S S S S S S	OH 600 600 600 700 700 700 700 700 700 700	O N N 2n 1151 1334 1324 1334 1120 1308 1314 1126 13314 1126 1331 1176 1250 1307 1321 1309 1400 1371 1333 1255 1312 1345 1345	Example 2 in the second	ISB         NO           1353         930           1353         930           422         446           1270         446           422         446           422         535           555         707           751         681           638         497           437         469           568         542	Unit 2152 1107 2691 3024 5946 6029 6010 6117 6100 6117 6100 6117 6100 6117 6100 6117 6330 6349 6339 6397 6428	LHAW OII 205 285 300 200 133 100 100 225 214 10 17 57 8 94 118 123 147 177 202 236 249 223 35	2 % VOL 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	8 9 100°C 14.8 14.9 14.4 14.3 14.5 14.3 14.5 14.3 14.7 14.6 14.3 14.7 14.6 14.3 14.7 14.6 14.3 14.7 14.6 14.3 14.7 14.8 14.9 14.3 14.3 14.5 14.1 14.5 13.8 14.2 13.5 13.3 14.4 14.1 14.4 14.4 14.4 14.4 14.4 14.4 14.4	40 40 40 40 40 40 40 40 40 40 40 40 40 4	2 3.92 6.1 6.66 5.88 5.39 6.79 6.79 6.79 6.79 7.72 7.72 7.72 7.24 7.24 7.01 7.01 7.01 7.12 7.12 7.01 7.12 7.12 7.01 7.24 7.24 7.24