

PREVENTIVE MAINTENANCE CHECKLIST

Standby Generator Mechanical & Electrical Service

DEALER CODE	W' ORDER: _____ /	CUST' NAME:					
DATE day / month / year	SERV'MAN:	EQUIP' LOCATION:					
CAT. MODEL	CAT. SERIAL NO.	SERV TYPE	PM2	PM3	PM4	PM5	SMU _____

Warning: Generator Engines may Start Automatically ISOLATE Controls Before Commencing Work

	C	A	R	RF	N		C	A	R	RF	N	
	O	D	E	E	/		O	D	E	E	/	
	M	J	P	Q	L		M	J	P	Q	L	
	P	U	L	U	L		P	U	L	U	L	
	L	S	A	C	I		L	S	A	C	I	
	E	T	E	E	R		E	T	E	E	R	
	T	E	D	D	W		E	D	D	W	E	
	E				E		D			U	D	
	D				D		P			P	D	
250 and 500 HOUR SERVICE												
1 Check Battery Voltage and Record prior to servicing Generator						31 Check Exhaust System for leaks						
2 Check wall mounted battery charger for proper operation. Record float voltage						32 Check battery charging system for proper operation						
3 Check Specific Gravity of Battery and Record - prior to servicing Generator						33 Carry out the following after Engine Shutdown						
4 Check Electrolyte Level in Batteries						34 Test Auto Start and Power Transfer for 30 minutes						
5 Clean/Tighten Battery Terminals						35 Ensure all Switches are in AUTO start position						
6 Check Engine Radiator for debris						36 Visually inspect exhaust rain cap for closure						
7 Inspect Engine & Generator for loose /broken bolts						37 Take SOS from Engine Oil						
8 Inspect Cooling System Hoses						1000 HOUR SERVICE						
9 Check Coolant Level and Additive Concentration						1 Carry out items 1 through 37 plus the following						
10 Check Air System Restriction Indicator						2 Remove and clean Magnetic pick up						
11 Check/Clean/Replace Air Filter Elements						3 Inspect turbocharger and check for rotation						
12 Check Turbo Charger for proper bearing clearances, end play and seal leakage						4 Evaluate condition of hoses and belts						
13 Check Eng Oil Level and record						5 Clean & Inspect voltage regulator						
14 Change Oil and Filters. Maintain between Full & Add						6 Clean & Inspect rotating diode assembly						
15 Drain and wash Racor fumes disposal filter (mounted on left front of generator package)						7 Insulation resistance test on main stator						
16 Check Fuel System for leaks						8 Check & Adjust Valve Lash. Replace Rocker Cover Gasket						
17 Change Wall mount Racor Fuel Filters and Engine Fuel Filters						9 Coolant drain, flush, and replacement. Replace radiator cap						
18 Inspect Fuel Filters for water, cut open and inspect for foreign material						10 Load test engine to 30% minimum for one hour						
19 Drain water and sediment from Fuel Tank and Check operation of Fuel Gage						11 Record engine gauge readings						
20 Check / Adjust V-belts						3000 Hour Service						
21 Visually Inspect Generator Control Panel Wiring for chafing and sound electrical connections						In addition to the 250/500 and 1000 hour maintenance items						
22 Check and adjust if necessary control linkages						1 Thermostats - Replace						

23	Test operation of alarms & Shut down devices					
24	Lubricate fan drive as required					
25	Check operation of jacket water heater if applicable					
26	Start Engine					
27	Check oil pressure, fuel pressure, RPM, water temp., frequency and output voltage					
28	Check engine water pump for seal leakage					
29	Record Alternator Output Voltage					
30	Check condition of all gauges					

2	Fan Belts - Replace					
3	Hoses - Replace cooling system hoses					
4	Batteries - Replace					
5	Alternator Belt - Replace					
6	Valve Rotators - Operational inspection to ensure proper valve rotation					
7	Test generator set with load banks for a minimum of 2 hours. Record data and note engine operating condition.					
8	Test main stator, main rotor, exciter stator, and exciter rotor. Record data for reference					

***** **Customer Added Tasks**

A	Fill in Inventory checklist	
B	Runtime on Generator after Maintenance	
C	Leave copy of this completed checklist and inventory checklist with Officer in Charge	

D	Battery Install Date: (change every 2 yrs)	
E	Diesel Fuel Gage Install Date: (change every year)	
F		

CUSTOMER

SERVICEMAN

SIGNATURE

SIGNATURE

PART NUMBER RESPONSIBLE	PART NAME	QTY	DESC CODE	GROUP NUMBER CONTAINING PART	GROUP NAME	WAS PRODUCT INOPERABLE	DESCRIPTIVE COMMENTS (20 SPACES MAXIMUM)
						Y N	

Required Follow Up Action : Fax or email Report of Oil Sample Analysis to ljones@lanl.gov or 505-667-9122

RPM & Generated Voltage reading

Inventory of Spares/Supplies:

Quantity Required	Part No	Description	Unit Price \$AUD	Extended Price \$AUD	Weight Ea. Kg	Quantity on Hand	Location
1	172-7767	Water Pump	\$1363.35	\$1363.35	13.4 kg		
1	5F-3106	Seal W/P	\$5.42	\$5.42	0		
1	7N-4651	Turbocharger	\$1999.65	\$1999.65	9.5		
4	8N-7005	Injector	\$224.55	\$898.20	.3		
1	4P-9963	Fuel Line	\$209.00	\$209.00	.2		
1	4P9964	Fuel Line	\$209.99	\$209.99	.2		
1	4P-9961	Fuel Line	\$209.00	\$209.00	.2		
1	4P-9962	Fuel Line	\$209.00	\$209.00	.2		
1	030-7946	Elbow Fuel Line	\$8.57	\$8.57	0		
1	030-7947	Elbow Fuel Line	\$10.09	\$10.09	0		
2	3J-1907	Seal Fuel Line	\$0.99	\$1.98	0		
2	3J-7354	O Ring Fuel Line	\$0.93	\$1.86	0		
2	4M-8303	O Ring Fuel Line	\$1.33	\$2.66	0		
1	7W-8118	Tube Fuel Line	\$50.99	\$50.99	.1		
6	1R-0750	Fuel Filter	\$17.60	\$105.60	.6		
3	8H-2778	Gasket Fuel	\$3.40	\$10.20	.1		
1	9M-2341	Fuel Filter Prime	\$7.57	\$7.57	.1		
6	1R-0739	Oil Filter	\$15.40	\$92.40	1		
1	111-8010	Water Regulator	\$66.64	\$66.64	.2		
1	7N-0944	Gasket W/R	\$4.04	\$4.04	0		
2	8N-9963	Engine Mount	\$390.80	\$781.60	7.1		
2	8N-9964	Engine Mount	\$390.80	\$781.60	6.9		
1	138-3069	Gasket Kit	\$141.40	\$141.40	.5		
1	140-2246	Gasket Kit	\$148.20	\$148.20	.7		
1	148-8861	Gasket Kit	\$328.65	\$328.65	1.2		
1	6V-0605	Gasket Kit	\$75.20	\$75.20	1.5		
4	5P-8768	Gasket Kit	\$23.59	\$94.36	0		
1	1N-4304	Cylinder Head	\$3426.95	\$3426.95	61.8		
2	3N-6036	Radiator Hose	\$38.61	\$77.22	.7		
2	3N-6033	Radiator Hose	\$14.29	\$28.58	.1		
1	6L-8617	Radiator Cap	\$22.67	\$22.67	.1		
1	6T-1395	Alternator	\$609.85	\$609.85	5.1		
2	8L-4526	Belt Set	\$71.68	\$143.36	.5		
6	7W-5317	Air Element	\$62.04	\$372.24	2.6		
6	9S-9972	Air Element	\$63.64	\$381.84	1.8		
3	3N-5612	Fuse	\$5.43	\$16.29	0		
4	3N-5582	Circuit Breaker	\$113.20	\$452.80	0		
1	155-3822	Voltage Regulator	\$1183.35	\$1183.35	1.9		
3	3N-5312	Rectifier	\$122.90	\$368.70	0		
1	1052508	Fuel Priming Pump	\$123.60	\$123.60	.5		
1	1W1695	Fuel Transfer Pump	\$738.75	\$738.75	1.0		
1	1P0436	Gasket F/P	\$1.59	\$1.59	.1		
1	4J8997	'O'ring F/P	\$1.97	\$1.97	.1		
1	6V5227	Starter Assembly	\$1698.95	\$1698.95	26.6		
6	9M7959	Hose Clamp	\$5.36	\$32.16	.1		
1	9F3099	Starter Switch Aux	\$61.28	\$61.28	.3		
2	5P4868	Hose Clamp	\$6.92	\$13.84	.1		
1	4W2582	Hose - Air	\$41.31	\$41.31	.1		

		Intake					
3	3P2044	Coolant 1lts	\$10.45	\$31.35	1.0		
6	1P-0808	Grease Cartridge	\$3.84	\$23.04	.5		
6	SOS3	SOS Bottle	\$23.50	\$141	.1		
3	6V-3542	Coolant 0.25lts	\$6.87	\$20.61	.3		
12	3E9714	Oil - 15W40	\$47.64	\$91.68	3.6		
2	9X9720	Battery, 12V	\$309.15	\$618.30	27		
			Totals	\$18,540.50AUD	OR	\$9,741US	
12	11-1414 2020SM- OR	Racor Fuel Filter, 2 micron	\$10.58USD \$27.32	\$126.96USD \$327.84	.1		
1	H-1.5-48" for A-1 and H- 2.0-48" for A-2	Fuel Gage	2W3687	\$57.07	\$57.07		