JEFFREY	PRODUCTS	JEFFREY MINING PRODUCTS 274 EAST 1ST AVE. COLUMBUS, OHIO 43201 SHEET PART 36 MACHINE A					CONFIDENTIA THE EXCL JEFFREY NEITHER T CONTENTS REPRODUCED, WHOLE OR	USIVE PI MINING HE DRAWI ARE TO OR DI PART, WI ONSENT FI	ROPERTY (PRODUCT: NG OR I' BE USE	IS OF IS. ITS ED, IN
DRAWING NO.			SHEET NO.				PROVAL N	NUMBERS	THAT USE	<u>C</u>
553	553A870			31-1	S CHECK 06-2	LIST:				
DRAWN WCM	DATE 8/14/92	_	E	A KRT 4/21/97						
CHECKED	DATE									

MACHINE/ELECTRICAL CHECKLIST

MAKE AND MODEL NO. - JEFFREY MODEL 4110 MACHINE TYPE: RAMCAR

IF AN MSHA PART 36 APPROVAL PLATE HAS BEEN AFFIXED TO THIS MACHINE, IT MUST MEET THE REQUIREMENTS OF PART 36, TITLE 30, CODE OF FEDERAL REGULATIONS. IT IS THE RESPONSIBILITY OF THE USER TO ENSURE THAT THIS MACHINE IS MAINTAINED IN PERMISSIBLE CONDITION IN ACCORDANCE WITH THIS CHECKLIST.

ALL INSPECTIONS AND TESTS SHALL BE PERFORMED IN FRESH AIR

PERMISSIBILITY:

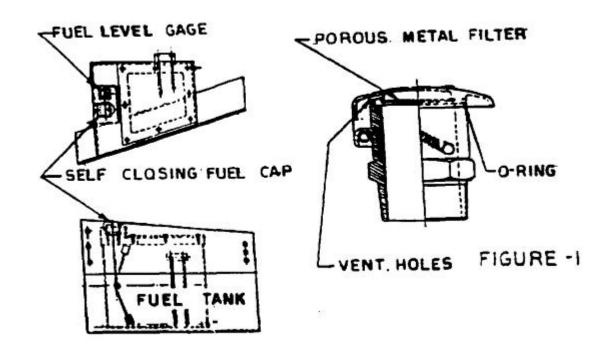
- 1. FOR A COMPLETE PERMISSIBILITY EVALUATION, THIS CHECKLIST MUST BE USED IN CONJUNCTION WITH A POWER SYSTEM CHECKLIST.
- 2. THE DESIGN OF THE EXHAUST CONDITIONER LIMITS PERMISSIBLE OPERATION TO GRADES NOT EXCEEDING 20%.
- 3. DUE TO BRAKING CAPABILITY LIMITATIONS, THIS MACHINE SHALL NOT BE OPERATED ON GRADES GREATER THAN 30%.
 - NOTE: WHEN A DPF SYSTEM IS INSTALLED, THE MACHINE SHALL NOT BE OPERATED ON A GRADE EXCEEDING 20%.
 - NOTE: WITHOUT A DPF SYSTEM INSTALLED AND WHEN OPERATED IN AREAS WHICH DO NOT REQUIRE PERMISSIBLE MACHINES, THIS MACHINE CAN BE OPERATED ON GRADES GREATER THAN 20% GRADE LIMITATION DUE TO THE DESIGN OF THE EXHAUST CONDITIONER, BUT IN NO CASE CAN THE MACHINE BE OPERATED ON GRADES GREATER THAN 30% DUE TO BRAKING CAPABILITY LIMITATIONS.
- 4. THE APPROVAL PLATE SPECIFIES A VENTILATION RATE OF 5500 CFM FOR COAL MINES AND 8700 CFM FOR GASSY NON-COAL MINES.

TEST SHI		TTLE: MACHINE/E	ELECTRICA	AL	MINE SAFETY & HEALTH ADMII APPROVED PRINT. NO DEVIATION OR LEGAL UNTIL APPROVED BY MSHA	120 2 2 2 2 2 2 2	- 1
DISTR. CODE	STD:	SPECIAL:	ENG. SEC	PRINT LOCATION:	DRAWING NUMBER	SHEET NO.	OF 11
SEE DRG.	В		L.		553A870	1	SHEETS

JEFFREY	MINING PRODUCTS	JEFFRE 274 EAS COLUM	ST 1ST	AVE			THIS CONFIDENT THE EX JEFFREY NEITHER CONTENTS REPRODUCE WHOLE OF WRITTEN MINING PR	CLUSIVE MINING THE DRAW ARE TO D, OR PART, N CONSENT	D BE U DISCLOSED WITHOUT P	O IS OF
DRAWING NO.	3A870		SHEET NO.			S CHECK	PROVAL		S THAT US	SE
DRAWN WCM CHECKED	DATE 8/14/92 DATE		R E V	A KR 4/2	T 1/97					

A. <u>FUEL SYSTEM</u>:

- *1. () THERE ARE NO FUEL LEAKS.
- *2. () THE FUEL FILLER CAP (1)** IS VENTED AND THE VENT IS NOT PLUGGED (SEE FIGURE 1). **REFERENCED ITEMS SHOWN ON MACHINE LAYOUT DIAGRAM.



- *(WEEKLY) DESIGNATES THOSE INSPECTION CHECKS THAT MUST BE PERFORMED DURING THE WEEKLY MAINTENANCE EXAMINATION IN ACCORDANCE WITH 30 CFR, SECTION 75.1914.
- *3. () THE FUEL FILLER CAP IS SELF-CLOSING AND IS ATTACHED TO THE TANK IN A MANNER WHICH WILL PREVENT LOSS DURING REFUELING.

TEST SHI		ITLE: MACHINE/E	LECTRICA	AL.	MINE SAFETY & HEALTH ADMINISTRATION APPROVED PRINT. NO DEVIATION OR REVISION IS LEGAL UNTIL APPROVED BY MSHA			
DISTR. CODE	STD:	SPECIAL:	ENG. SEC	PRINT LOCATION:	DRAWING NUMBER	SHEET NO.	OF 11	
SEE DRG.	В		L.		553A870	2	SHEETS	

JEFFREY	MINING PRODUCTS	JEFFRE 274 EAS COLUM	ST 1ST A	AVE.			THIS CONFIDENT THE EX JEFFREY NEITHER CONTENTS REPRODUCE WHOLE OF WRITTEN MINING PR	CLUSIVE MINING THE DRAW ARE TO D, OR PART, CONSENT	DISCLOSED WITHOUT P	OF
DRAWING NO.	3A870		SHEET NO. 3 PART 36 MACHINE THIS CHECKLIST: 31-106-2				PROVAL	NUMBER	S THAT US	SE
DRAWN WCM CHECKED	DATE 8/14/92 DATE		R E V	A KR' 4/21	Т 1/97					

- *4. () AUXILIARY FUEL TANK CAPACITY HAS NOT BEEN ADDED TO THE VEHICLE.
- *5. () FUEL FILTERS (2)** ARE PROPERLY INSTALLED AND ARE NOT DAMAGED.
- *6. () THE FUEL INJECTION RATE ADJUSTMENT MECHANISM (3)**AND THE ENGINE GOVERNOR SETTING ARE LOCKED AND SEALED (SEE FIGURE 2).

**REFERENCED ITEMS SHOWN ON MACHINE LAYOUT DIAGRAM

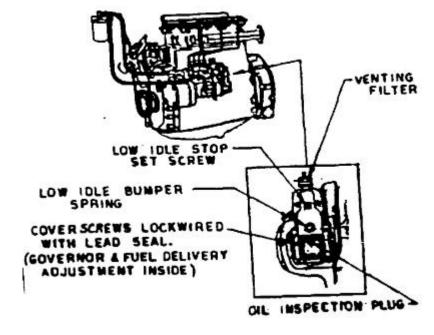


FIGURE 2

- *(WEEKLY) DESIGNATES THOSE INSPECTION CHECKS THAT MUST BE PERFORMED DURING THE WEEKLY MAINTENANCE EXAMINATION IN ACCORDANCE WITH 30 CFR, SECTION 75.1914.
- *7. () THE FUEL SHUTOFF VALVE (4)** IN THE FUEL SUPPLY LINE IS OPERABLE.
- *8. () THE DRAIN PLUG (5)** IN THE FUEL TANK IS LOCKED IN POSITION. (PIPE PLUGS ARE CONSIDERED "LOCKED IN POSITION" WHEN TIGHT).

TEST SHI		TTLE: MACHINE/E	ELECTRICA	AL .	MINE SAFETY & HEALTH ADMIT APPROVED PRINT. NO DEVIATION OR LEGAL UNTIL APPROVED BY MSHA		- '
DISTR. CODE	STD:	SPECIAL:	ENG. SEC	PRINT LOCATION:	DRAWING NUMBER	SHEET NO.	OF 11
SEE DRG.	В		L.		553A870	3	SHEETS

JEFFREY	MINING PRODUCTS	JEFFRE 274 EAS COLUM	ST 1ST	AVE				JEFFREY NEITHER CONTENTS REPRODUCED WHOLE OR	LUSIVE MINING THE DRA ARE T , OR PART, CONSENT	RMATION PROPER' RMING (FO BE DISCLOS WITHOUT	ODUCTOR I OR I USI SED	IS OF IS. ITS ED, IN
DRAWING NO.			SHEET NO.			T 36 MAC S CHECK	-	PROVAL	NUMBE	RS THA	T USI	E
553.	A870		4		31-10		LIST.					
DRAWN WCM	DATE 8/14/92		R E	A KR	т							
51.2	0/11/22		V		1/97							
CHECKED	DATE											

NOTE: THE FOLLOWING CHECKS MUST BE PERFORMED IF THE FUEL LINES HAVE BEEN REPAIRED OR REPLACED.

- *9. () FUEL LINES ARE NOT ROUTED NEAR OR CONNECTED TO HOT EXHAUST COMPONENTS AND ARE PROTECTED FROM EXTERNAL DAMAGE.
- *10. () FUEL LINES ARE SECURED.

B. BRAKING SYSTEM:

WARNING: BRAKE TESTS ARE TO BE CONDUCTED ON A RELATIVELY LEVEL SURFACE,

AWAY FROM TRAFFIC AREAS WHERE OTHER MACHINES OR PERSONS MAY BE MOVING ABOUT. CONSIDER THE POSSIBLE CONSEQUENCES OF TESTING A MACHINE WITH ASSUMED BRAKING INADEQUACIES, AND SELECT AN AREA WHERE THE TEST MACHINE WOULD NOT CAUSE AN ACCIDENT DUE TO THESE

INADEQUACIES.

- *1. () SERVICE BRAKE TEST
 - A. WITH THE ENGINE OPERATING AND THE MACHINE STATIONARY, APPLY THE SERVICE BRAKE.
 - B. RELEASE ALL OTHER BRAKES

**REFERENCED ITEMS SHOWN ON MACHINE LAYOUT DIAGRAM

- *(WEEKLY) DESIGNATES THOSE INSPECTION CHECKS THAT MUST BE PERFORMED DURING THE WEEKLY MAINTENANCE EXAMINATION IN ACCORDANCE WITH 30 CFR, SECTION 75-1914.
 - C. PLACE THE TRANSMISSION GEAR SELECTOR IN SECOND GEAR AND THE DIRECTIONAL CONTROL SELECTOR IN FORWARD OR REVERSE.
 - D. DEPRESS THE ACCELERATOR TO FULL THROTTLE, ALLOWING THE ENGINE TO PUT THE TRANSMISSION TORQUE CONVERTER INTO A STALL CONDITION.

TEST SHI		ITLE: MACHINE/E	ELECTRICA	AL	MINE SAFETY & HEALTH ADMII APPROVED PRINT. NO DEVIATION OR LEGAL UNTIL APPROVED BY MSHA		- '
DISTR. CODE	STD:	SPECIAL:	ENG. SEC	PRINT LOCATION:	DRAWING NUMBER	SHEET NO.	OF 11
SEE DRG.	В		L.		553A870	4	SHEETS

JEFFREY	MINING PRODUCTS	JEFFRE 274 EAS COLUM	ST 1ST	AVE				THIS CONFIDENT THE EXC JEFFREY NEITHER CONTENTS REPRODUCE WHOLE OR WRITTEN MINING PRO	LUSIVE MINING THE DRA ARE TO, OR PART, CONSENT	RMATION AI PROPERTY PROD WING OR O BE DISCLOSED WITHOUT	ITAINS ND IS OF OUCTS. ITS USED, O IN PRIOR
DRAWING NO.			SHEET NO.			T 36 MAC S CHECK	-	PROVAL	NUMBEI	RS THAT I	USE
553	A870		5		31-10		LIST:				
DRAWN WCM	DATE 8/14/92		R E V	A KR 4/2	T 1/97						
CHECKED	DATE										

IF THE SERVICE BRAKE IS OPERATING SATISFACTORILY, THE UNIT WILL NOT MOVE WHEN THE ABOVE PROCEDURE IS FOLLOWED. IF MOVEMENT IS DETECTED, THE SERVICE BRAKE MUST BE REPAIRED OR ADJUSTED.

- *2. () PARKING BRAKE TEST.
 - A. WITH THE ENGINE OPERATING AND THE MACHINE STATIONARY, APPLY THE PARKING BRAKE (6)**.
 - B. RELEASE ALL OTHER BRAKES.
 - C. PLACE THE TRANSMISSION GEAR SELECTOR IN SECOND GEAR AND THE DIRECTIONAL CONTROL SELECTOR IN FORWARD OR REVERSE.
 - D. ACTUATE THE DECLUTCH BYPASS VALVE LOCATED ON THE LEFT SIDE WALL OF OPERATOR'S COMPARTMENT AND HOLD DURING TEST.

WARNING RELEASING THE DECLUTCH BYPASS VALVE DURING TEST WILL CAUSE THE MACHINE TO LURCH IN FORWARD OR REVERSE DIRECTION AS SELECTED. NOTE: IF THE DECLUTCH BYPASS VALVE IS RELEASED DURING TEST, THE TEST PROCEDURE MUST BE STARTED AGAIN BEGINNING WITH A.

- E. SHIFT PARK BRAKE LEVER FROM "ON" POSITION TO "AUTO" POSITION.
- F. DEPRESS THE ACCELERATOR TO FULL THROTTLE, ALLOWING THE ENGINE TO PUT THE TRANSMISSION TORQUE CONVERTER INTO A STALL CONDITION.

**REFERENCE ITEMS SHOWN ON MACHINE LAYOUT DIAGRAM

- *(WEEKLY) DESIGNATES THOSE INSPECTION CHECKS THAT MUST BE PERFORMED DURING THE WEEKLY MAINTENANCE EXAMINATION IN ACCORDANCE WITH 30 CFR, SECTION 1914.
 - G. AFTER TEST, RETURN ENGINE TO LOW IDLE, RELEASE DECLUTCH BYPASS VALVE AND RETURN PARK BRAKE LEVER TO "ON" POSITION.

IF THE PARKING BRAKE IS OPERATING SATISFACTORILY, THE UNIT WILL NOT MOVE WHEN THE ABOVE PROCEDURE IS FOLLOWED. IF MOVEMENT IS DETECTED, THE

TEST SHI		TTLE: MACHINE/E	ELECTRICA	AL	MINE SAFETY & HEALTH ADMII APPROVED PRINT. NO DEVIATION OR LEGAL UNTIL APPROVED BY MSHA	120 2 2 2 2 2 2 2	- 1
DISTR. CODE	STD:	SPECIAL:	ENG. SEC	PRINT LOCATION:	DRAWING NUMBER	SHEET NO.	OF 11
SEE DRG.	В		L.		553A870	5	SHEETS

JEFFREY	MINING PRODUCTS	JEFFRE 274 EAS COLUM	ST 1ST	AVE				JEFFREY NEITHER CONTENTS REPRODUCED WHOLE OR	LUSIVE MININ THE DR ARE , OR PART, CONSENT	RMATIO: PROPE	RTY PRODUC OR E US OSED	IS OF CTS. ITS SED, IN
DRAWING NO.			SHEET NO.	•			CHINE APP	PROVAL	NUMBE	RS TH	AT US	SE.
553A	A 870		6		31-10	S CHECK 06-2	LIST:					
DRAWN	DATE		R	Α								
WCM	8/14/92		Е	KR'	Т							
			V	4/2	1/97							
CHECKED	DATE		,	.,	2,7,							

PARKING BRAKE MUST BE REPAIRED OR ADJUSTED.

C. ELECTRICAL LIGHTING SYSTEM:

ALL ELECTRICAL ENCLOSURES MUST MEET THE FOLLOWING:

*1. ALL ELECTRICAL ENCLOSURES (I.E., ALTERNATOR (7)**, HEADLIGHT () SWITCH (8)**, HEADLIGHT (9)** CONNECTION BOX(S) HAVE AN MSHA PLATE ATTACHED THAT IS CLEARLY STAMPED WITH AN MSHA CERTIFICATION NUMBER. *2. ALL ELECTRICAL ENCLOSURES ARE SECURELY MOUNTED AND ALL () VULNERABLE ELECTRICAL COMPONENTS ARE PROTECTED FROM PHYSICAL DAMAGE. ALL ELECTRICAL ENCLOSURES ARE INTACT (NOT CRACKED OR *3. () BROKEN); THE HEADLIGHT LENSES ARE NOT LOOSE. ALL SHAFT AND/OR PUSHBUTTON CONTROLS ARE OPERABLE.

- **REFERENCED ITEMS SHOWN ON MACHINE LAYOUT DIAGRAM
- *(WEEKLY) DESIGNATES THOSE INSPECTION CHECKS THAT MUST BE PERFORMED DURING THE WEEKLY MAINTENANCE EXAMINATION IN ACCORDANCE WITH 30 CFR, SECTION 75-1914.
- *4. () ALL THREADED COVERS ARE SECURED FROM LOOSENING BY A LOCKING SCREW, WIRE, OR OTHER MEANS.
- *5. () LOCKWASHERS OR EQUIVALENT DEVICES ARE PROVIDED FOR ALL BOLTS, SCREWS, OR STUDS THAT SECURE PARTS OF THE EXPLOSION-PROOF ENCLOSURES. ALL BOLTS, SCREWS, AND STUDS ARE IN PLACE AND TIGHTENED.

TEST SHI		ITLE: MACHINE/E	ELECTRICA	AL.	MINE SAFETY & HEALTH ADMIT APPROVED PRINT. NO DEVIATION OR LEGAL UNTIL APPROVED BY MSHA		- '
DISTR. CODE	STD:	SPECIAL:	ENG. SEC	PRINT LOCATION:	DRAWING NUMBER	SHEET NO.	OF 11
SEE DRG.	В		L.	200/11/011	553A870	6	SHEETS

JEF	PRODUCTS 274				JEFFRE 274 EAS COLUM	ST 1ST	AVE				THE JEFFR	CONFIDENTIAL INFORMATION AND				
											CONTE REPRO WHOLE WRITT	NTS DUCED, OR	OR DO	BE ISCLOSE THOUT	USEI	
DRAWI	NG I	VO.				SHEET	-			CHINE AF	PROVA	L N	UMBERS	THAT	USE	
			552 A (270		NO.			S CHECK	KLIST:						
			553A8					31-1	06-2				1			
DRAW! WCM	1		D	8/14/92		R	A	TT.								
VV CIVI				0/14/72		E V	4/2	1 1/97								
CHECK	ED		D	ATE		•	7/2	1///								
*6.	()	NONE O	F THE FASTE	NINGS U	SED FO	OR IC	INTS	ON THE	EXPLOSIO	ON-PRO	OF				
0.	(,		URES ARE US												
			MAKING	ELECTRICA	L CONNI	ECTION	IS.									
7.	()		NTS FORMING						`		COVE	RS)			
				OOTH AND F					,							
*8.	()		LER GAUGES												
				ACCESSIBLE I PONDING CO				,		HE ENCL	OSURE	SAND				
*9.	()		GHT(S) IS/AR						НЕ МАСН	INF AN	D OPF	RARIF			
*10.	(,		GHT SWITCH												
	`	,		THAN HEADL												
*11.	()	ALL LEA	D ENTRANC	ES (PACI	KING G	LAN	DS) A	ARE ASSE	EMBLED S	О ТНАТ	THE (CABLE			
				PENETRATE												
				NCE REMAIN											ΓS	
				JFFING BOXE	ES ARE S	ECURE	D FR	ROM I	LOOSENII	NG BY A I	LOCKIN	G SCR	EW, WIRE	Ē.		
*10	,	,		ER MEANS.	NITTO A NIC	TEC AD	E CI	OGEI		IETAL DII	ICC WIL	II A	DE CECLIE	ED		
*12.	()		JSED LEAD E E BY SPOT W							JGS WH	IICH A	RE SECUR	ŒD		
			IN PLAC	E DI SPUI W	LLDING,	DNAZ	mvG,	OK E	QUIVALI	۱۱۱.						

*(WEEKLY) DESIGNATES THOSE INSPECTION CHECKS THAT MUST BE PERFORMED DURING THE WEEKLY MAINTENANCE EXAMINATION IN ACCORDANCE WITH 30 CFR, SECTION 75-1914.

CABLES CONNECTING ELECTRICAL COMPONENTS MUST CONTINUE TO BE:

*13.	()	CLAMPED IN PLACE TO PREVENT UNDUE MOVEMENT.
*14.	()	PROTECTED FROM MECHANICAL DAMAGE BY POSITION, FLAME RESISTANT HOSE
		CONDUIT, METAL TUBING, OR TROUGHS. NOTE: FLEXIBLE OR THREADED RIGID
		METAL CONDUIT IS NOT ACCEPTABLE.
*15.	()	NOT SUBJECT TO ABRASION FROM SHARP CORNERS OR EDGES.

TEST SHI		TTLE: MACHINE/E	ELECTRICA	MINE SAFETY & HEALTH ADMINISTRATION APPROVED PRINT. NO DEVIATION OR REVISION IS LEGAL UNTIL APPROVED BY MSHA			
DISTR. CODE	STD:	SPECIAL:	ENG. SEC	PRINT LOCATION:	DRAWING NUMBER	SHEET NO.	OF 11
SEE DRG.	В		L.	553A870	7	SHEETS	

JEF	FRE	Y MINING PRODUCTS		Y MININ ST 1ST A		DUCTS		THIS DRAWING CONTAINS CONFIDENTIAL INFORMATION AND IS				
		PRODUCTS		IBUS, OF		201		THE EXCLU JEFFREY	USIVE PI MINING	ROPERTY PRODUC	OF TS.	
									HE DRAWI ARE TO		ITS ED,	
								REPRODUCED, OR DISCLOSED IN WHOLE OR PART, WITHOUT PRIOR				
								WRITTEN CONSENT FROM JEFFREY MINING PRODUCTS.				
DRAWIN	G NO.			SHEET NO.			CHINE APP			THAT US	E	
		553A870		8		HIS CHECH -106-2	KLIST:					
DRAWN WCM		DATE 8/14/92		1	A							
WCIVI		0/14/92			KRT 4/21/9	7						
CHECKE	:D	DATE		, 	., = 1, ,							
*16.	()	ISOLATED FROM HY	DR ATIT TO	LIMES	AND H	VDR ATILIC	COMPONE	NTS				
*17.	()	ISOLATED FROM FUE				TDIGTOLIC	COMI ONE					
*18.	()	FLAME RESISTANT II			D IN H	OSE COND	UIT. THIS IS	INDICATE	D BY			
*19.	()	"MSHA" MARKINGS (IF HOSE CONDUIT IS			BE SEC	URELY CI	AMPED AT	BOTH ENDS	SAND			
	()	MSHA MARKINGS AF		EAR AS "FLAME-RESISTANT", US MSHA, US MESA,								
		OR USBM 2G										
	NOTE:	THE FOLLOWING CH	ECK MA	Y BE PEI	RFORN	IED WHEN	AN ELECTR	CICAL ENCL	OSURE			
		HAS BEEN DISASSEM						E IS CAUSE	TO			
		BELIEVE A PROBLEM	LEXISTS	WITHIN	THE	ENCLOSUR	E.					
20.	()	PROVIDED WITH SHO										
21.	()	ELECTRICAL CONNE AND ARE INSULATEI									'NI	
		AND ARE SECURELY			15 Liiv	IIILD. IIII	2 GROOND C	CONDUCTOR	KS AKL IVO	or broke	<i>.</i> 1 \	
*(WEEI	KLY) DI	ESIGNATES THOSE INS	SPECTION	N CHECK	KS THA	AT MUST B	E PERFORM	ED DURING	THE WEE	KLY		
	M	AINTENANCE EXAMIN	NATION I	N ACCO	RDAN	CE WITH 3	0 CFR, SECT	ION 75-1914	l.			
E.	MISCE	LLANEOUS:										
	*1.	() THE MACHIN	E IS EOU	IPPED V	VITH A	T LEAST O	NE 5 LB DR	Y CHEMIC	AL FIRE			
		EXTINGUISH	ER (11)**	. ALL F	IRE EX	TINGUISH	ERS ARE FU	LLY CHARC	GED.			
	2.	() FOR MACHIN SUPPRESSION	-							ECVC.		
		SUPPRESSION	OISIEN	vi 13 OPE	MADL.	LAS DETE	MAIINED DI	THE PULL	WING CH	ECNS.		
		A. () NOTE	GENERA	AL APPE	ARAN	CE OF SYS	ГЕМ СОМРО	NENTS FOI	R MECHAN	NICAL		
							CARRIETY O. II					

THIS

TEST SHI		ITLE: MACHINE/E	LECTRICA	MINE SAFETY & HEALTH ADMINISTRATION APPROVED PRINT. NO DEVIATION OR REVISION IS LEGAL UNTIL APPROVED BY MSHA			
DISTR. CODE	STD:	SPECIAL:	ENG. SEC	PRINT LOCATION:	DRAWING NUMBER	SHEET NO.	OF 11
SEE DRG.	В		L.	553A870	8	SHEETS	

JEFFRE'	\overline{Y}	MINING PRODU		EY MINING		DUCTS			THIS DRAWING CONTAINS CONFIDENTIAL INFORMATION AND IS					
		FRODO		ST 1ST AV IBUS, OHI		201			JEFFREY	USIVE MINING		DUCTS.		
				NEITHER THE DRAWING OR CONTENTS ARE TO BE US REPRODUCED, OR DISCLOSED							USED,			
									WHOLE OR PART, WITHOUT PRIOR WRITTEN CONSENT FROM JEFFREY					
DRAWING NO.				SHEET		ART 36 N	IAC	MINING PRODUCTS. PROVAL NUMBERS THAT USE						
	5521	4.070	!	NO. 9	TH	HIS CHE			NO THE I	CIVIDLE	W IIIII	OBL		
DRAWN	553A	A8/U DATE	·	R A		-106-2	$\overline{}$		T					
WCM			14/92	E K	A KRT									
CHECKED		DATE		V 4	1/21/97	7								
CHECKED		DATE	!											
		J	DAMAGE OR C	CORROSIC										
B. () CHECK NAMEPLATE(S) FOR READABILITY.														
	C.	() F	REMOVE FILL	CAP.										
	D.	() N	MAKE CERTAI	IN TANK	IS FII	LED WI	ТН Е	FREE-FLOV	WING DRY (CHEMIC	AI.			
	D.	ì	TO A LEVEL O FILL OPENING	OF NOT MO				_						
	E.	() S	SECURE FILL (CAP, HAN	D TIC	GHTEN.								
	F.		REMOVE EXPE SHOULD BE UI			'ARTRID	GE A	AND EXA	MINE DISC;	SEAL				
	G.		RETURN CART HAND TIGHTE						CARTRIDGI	E RECEI	VER,			
	Н.	. ,	CHECK HOSE, AND CUTS.	FITTINGS	S ANE) NOZZL	ES F	FOR MECH	IANICAL DA	MAGE				
	I.		CHECK NOZZL (CAPPED) WIT:								W-OFF CA	ΔP.		
*(WEEKLY) DES	SIGNAT	TES THOS	SE INSPECTIO	N CHECK	S TH.∤	AT MIJST	' RE	PERFORM	IED DURING	THEW	FFKLY			
· · · · · · · · · · · · · · · · · · ·	MA	AINTENA	NCE EXAMINA	IATION IN	I ACC	CORDANG								
**REFERENCED	D ITEMS J.		I ON MACHINE REMOVE CART				I. A	CTUATOR	(S) AND EX.	AMINE				
•	J.		DISC; SEAL SH					01011101	(6) 11112 2	LIVIA				
	K.		RETURN CART TIGHTEN.	(RIDGE T	О МА	NUAL A	CTU	JATOR(S)	ASSEMBLY;	HAND				
	L.	() F	REPLACE ANY	I BROKEN	1 OR 1	MISSING	LEA	AD AND W	/IRE SEALS.					
*3.	()	THE MA	AIN AIR PRESSU	URE GAU	GE IN	THE OP	ERA	ATOR'S CC)MPARTME	NT IS OF	'ERABLE.			
TEST SHEET	TITL	E: MACH	INE/ELECTRIC	CAL					HEALTH ADI					

TEST SHI CHECKLIST		TTLE: MACHINE/E	ELECTRICA	MINE SAFETY & HEALTH ADMINISTRATION APPROVED PRINT. NO DEVIATION OR REVISION IS LEGAL UNTIL APPROVED BY MSHA			
DISTR. CODE	STD:	SPECIAL:	ENG. SEC	PRINT LOCATION:	DRAWING NUMBER	SHEET NO.	OF 44
	_			LOCATION:		NO.	11
SEE DRG. B L.					553A870	9	SHEETS

JEFFREY	JEFFREY MINING PRODUCTS 274 EAST 1ST AVE. COLUMBUS, OHIO 43201						JEFFREY NEITHER CONTENTS REPRODUCED WHOLE OR	USIVE MINING THE DRA ARE T , OR PART, CONSENT	MATION PROPE	RTY PRODUC OR US OSED	IS OF TS. ITS ED, IN	
DRAWING NO.		SHEET NO.	•			CHINE APP	ROVAL	NUMBER	S THA	T US	E	
5534	A 870		10	0	31-10	S CHECK 06-2	LIST:					
DRAWN	DATE		R	Α								
WCM	8/14/92		Е	KR	Γ							
			V	4/21	/97							
CHECKED	DATE		·	.,								

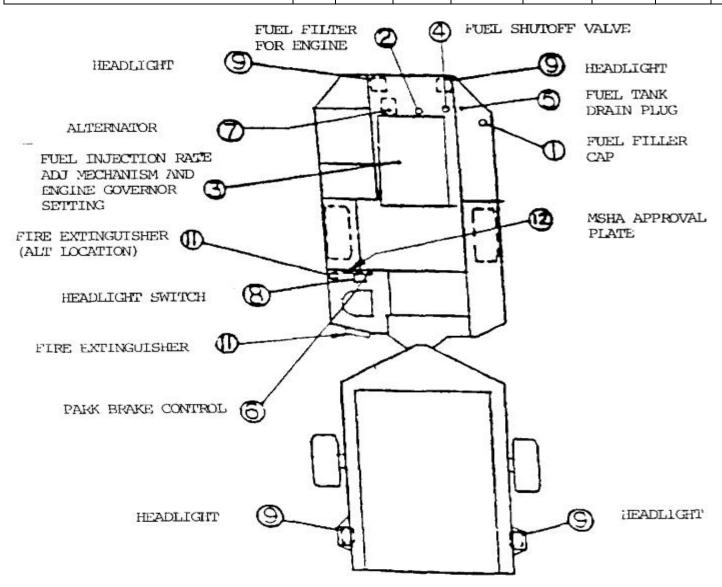
- *4. () THE MACHINE HAS AN MSHA PART 36 APPROVAL PLATE (12)** ATTACHED TO IT IN THE OPERATOR'S COMPARTMENT.
- *5. () THE ENGINE WILL NOT TURN OVER UNLESS THE DIRECTIONAL CONTROL SELECTOR IS IN THE NEUTRAL POSITION.
- *6. () THE EXHAUST DIFFUSER AT THE SCRUBBER OUTLET IS INSTALLED.

IF THE OPTIONAL DIESEL PARTICULATE FILTER SYSTEM IS INSTALLED, PERFORM THE FOLLOWING CHECKS:

- *A. THE DIESEL PARTICULATE FILTER HOUSING IS IN GOOD CONDITION WITH NO OPEN HOLES, CRACKS, OR LOOSE CONNECTIONS.
- *B. A WARNING TAG SPECIFYING A MAXIMUM ALLOWABLE EXHAUST BACK-PRESSURE OF 25 INCHES OF WATER IS INSTALLED NEXT TO THE EXHAUST FILTER'S SERVICE INDICATOR.
- *C. THE SERVICE INDICATOR IS NOT DAMAGED AND APPEARS TO OPERATE PROPERLY.
- D. IT IS PERMISSIBLE TO OPERATE THE MACHINE BOTH WITH AND WITHOUT THE FILTER ELEMENT INSTALLED.
- **REFERENCED ITEMS SHOWN ON MACHINE LAYOUT DIAGRAM
- *(WEEKLY) DESIGNATES THOSE INSPECTION CHECKS THAT MUST BE PERFORMED DURING THE WEEKLY MAINTENANCE EXAMINATION IN ACCORDANCE WITH 30 CFR, SECTION 75-1914.

TEST SHI		TTLE: MACHINE/E	ELECTRICA	MINE SAFETY & HEALTH ADMINISTRATION APPROVED PRINT. NO DEVIATION OR REVISION IS LEGAL UNTIL APPROVED BY MSHA			
DISTR. CODE	STD:	SPECIAL:	ENG. SEC	PRINT LOCATION:	DRAWING NUMBER	SHEET NO.	OF 11
SEE DRG.	В		L.	553A870	10	SHEETS	

JEFFREY	274 EAS	JEFFREY MINING PRODUCTS 274 EAST 1ST AVE. COLUMBUS, OHIO 43201					THIS DRAWING CONTAINS CONFIDENTIAL INFORMATION AND IS THE EXCLUSIVE PROPERTY OF JEFFREY MINING PRODUCTS. NEITHER THE DRAWING OR ITS CONTENTS ARE TO BE USED, REPRODUCED, OR DISCLOSED IN WHOLE OR PART, WITHOUT PRIOF WRITTEN CONSENT FROM JEFFREY				
DRAWING NO.		SHEET NO.			CHECK		MINING PR PROVAL		S THAT U	SE	
DRAWN WCM	DATE 8/14/92 DATE		R E V	A KR 4/2	T 1/97						



TEST SHI		TTLE: MACHINE/E	ELECTRICA	MINE SAFETY & HEALTH ADMINISTRATION APPROVED PRINT. NO DEVIATION OR REVISION IS LEGAL UNTIL APPROVED BY MSHA			
DISTR. CODE	STD:	SPECIAL:	ENG. SEC	PRINT LOCATION:	DRAWING NUMBER	SHEET NO.	OF 11
SEE DRG.	В		L.	553A870	11	SHEETS	