

MM&A 1104 DAY INSPECTION SHEET

LOCATION: *DEARB*

DATE: *12-20-10*

LOCOMOTIVE NO. *8583*

No.	INSPECT-CHECK	INSPECTOR'S SIGNATURE
	PERFORM ALL 100 SERIES INSPECTIONS AND TESTS WITH LOCOMOTIVE OUTSIDE OF SHOP BUILDING	
100	PERFORM SELF TEST ON ALERTER-EVENT RECORDER. DOWN LOAD EVENT RECORDER. INSURE THAT ALL DATA PARAMETERS ARE BEING RECORDED, VERIFY PROPER TIME AND DATE ON RECORDER.	<i>J. Martin</i>
101	SELF LOAD UNIT OUTSIDE. RECORD KW, AMPS AND VOLTS	
102	MANUALLY PULL EACH FUEL PUMP RACK SLIGHTLY AND LISTEN FOR A SHARP WRAP, WHICH INDICATES THAT THE NOZZLE AND CYLINDER ARE MOST LIKELY OPERATING PROPERLY.	<i>NO Inbound</i>
103	CHECK "DID" ON THE BRIGHTSTAR SCREEN. IF FAULT IS DISPLAYED, RECORD ON DEFECT SHEET AND INVESTIGATE THE CAUSE RUN LOCOMOTIVE SELF TEST IF NEEDED.	<i>D & D</i>
104	LISTEN TO DIESEL ENGINE IN IDLE FOR ANY UNUSUAL SOUNDS. MAKE VISUAL INSPECTION WITH ALL DOORS OPEN. LOOK FOR WATER, LUBRICATION AND FUEL LEAKS AND MAKE CORRECTIONS AS NECESSARY.	
105	CHECK ENGINE OIL LEVEL AT IDLE. ADD OIL TO FULL MARK AS NECESSARY. TAKE OIL SAMPLE AFTER RUNNING ENGINE FOR A MINIMUM OF FIVE (5) MINUTES.	
106	CHECK AIR COMPRESSOR OIL LEVEL WITH ENGINE AT IDLE.	
107	CHECK OIL LEVEL IN ALTERNATOR GEAR TRAIN. ADD DIESEL ENGINE OIL AS NEEDED.	<i>_____</i>
108	CHECK OPERATION OF WINDOW WIPERS. REPLACE BLADES AS NECESSARY.	
109	CHECK COOLING WATER LEVEL AND WATER TREATMENT CONCENTRATION. ADD TREATED OR CLEAN WATER AND COMPATIBLE WATER TREATMENT COMPOUND AS NEEDED.	
110	CHECK OPERATION OF GROUND RELAY SYSTEM AND LOCK OUT PER GETS MI GEI-83418A.	
111	CHECK EXHAUST MANIFOLD FOR LEAKS, CRACKS OR BROKEN WELDS. REPAIR AS NECESSARY.	
112	CHECK OPERATION OF ENGINE AIR FILTER PRESSURE SWITCH PER GETS MI GEK-18104.	
113	CHECK OPERATION OF EMERGENCY FUEL TRIPS AND THROTTLE STOPS	

114	CHECK GOVERNOR OVER SPEED SYSTEM TO ENSURE PROPER OPERATION. CHECK GOVERNOR OIL LEVEL AT IDLE.	
115	TEST FLUID AMPLIFIER FOR LEAKAGE PER MI GE K-35899.	
116	INSPECT AND TEST ALL ALARMS, AUTOMATIC CONTROLS AND PROTECTIVE DEVICES	
117	RUN MANUAL SELF TEST USING DID PANEL.	
118	CHECK AND VERIFY OPERATION OF SPEEDOMETER	
119	ENSURE WATER GOES INTO RADIATOR AND TANK SIGHT GLASS IS LOWER AT APPROX 180 DEGREES ON WATER TANK TEMP GAGE. CHECK COOLING WATER AMPLIFIER FOR LEAKS DURING LOAD BOX TEST.	
120	PERFORM OUTBOUND AIR BRAKE LEAKAGE TESTS AND VERIFY AUTOMATIC AND INDEPENDENT WORK CORRECTLY. APPLY AUTOMATIC BRAKE TO FULL SERVICE POSITION, CUT OUT AIR VALVE, AND VERIFY THAT BRAKE CYLINDERS STAY APPLIED FOR FIVE (5) MINUTES. APPLY INDEPENDENT BRAKES, MOVE REVERSER TO FORWARD, OPEN THROTTLE AND OBSERVE AMPERAGE ON AMPERAGE METER. RETURN THROTTLE TO IDLE, MOVE REVERSER TO REVERSE, OPEN THROTTLE AND OBSERVE AMPERAGE ON AMPERAGE METER. IF NO AMPERAGE APPEARS, IDENTIFY AND CORRECT PROBLEM.	no inbound D+D
121	CHECK OPERATION OF CAB HEATERS AND REFRIGERATOR. MAKE REPAIRS AS NECESSARY.	J Hartin
200	CHECK THAT ALL ACCESS PANEL HATCHES AND DOORS OF ELECTRICAL EQUIPMENT AND CABINETS ARE IN PLACE AND SECURED AND PROPERLY STENCILED WITH WARNING LABELS	J Hartin
201	CLEAN AND INSPECT CAB. MAKE SURE NO TOOLS OR DEBRIS IS ON THE FLOOR. CLEAN WINDOWS INSIDE AND OUT.	Cover
202	CHECK ALL CIRCUITS FOR GROUNDS, SHORT CIRCUITS AND DAMAGED INSULATION. CLEAN CONTROL EQUIPMENT COMPARTMENTS USING LOW VELOCITY DRY AIR OR A VACUUM CLEANER WITH A SOFT BRUSH	HV - OK
203	INSPECT ELECTRICAL EQUIPMENT POWER CONTACTOR TIPS, ARC CHUTES AND INTERLOCK PLUNGER BOLTS. CHECK FOR BURNED WIRING AND LOOSE OVERHEATED ELECTRICAL	J. Hartin

204	INSPECT MASTER CONTROLLER (17KC120), CLEANING CONTACT BRUSH WEAR DUST OR DEBRIS FROM DYNAMIC BRAKE POTENTIOMETER (IF PAINTED GREY VERSION) WITH DRY COMPRESSED AIR.	<i>J. Martin</i>
205	TEST ALL GAUGES FOR ACCURACY	<i>Amer</i>
206	INSPECT LOW PRESSURE FUEL HOSE. REPLACE AS NECESSARY.	<i>Coiley</i>
207	INSPECT MAIN ALTERNATOR COMMUTATOR, SLIP RINGS AND BRUSHES. DRESS COMMUTATOR AS NECESSARY. REPLACE (IN SETS ONLY!) CHIPPED, CRACKED OR DAMAGED BRUSHES AND THOSE TOO SHORT TO LAST UNTIL NEXT INSPECTION (IF ALL THREE MARKED LINES ARE NOT VISIBLE, BRUSHES ARE TOO SHORT AND MUST BE REPLACED).	<i>J. Martin</i>
208	INSPECT AUXILIARY ALTERNATOR AND EXCITER COMMUTATOR, SLIP RINGS AND BRUSHES. DRESS COMMUTATOR AS NECESSARY. REPLACE (IN SETS ONLY!) CHIPPED, CRACKED OR DAMAGED BRUSHES AND THOSE TOO SHORT TO LAST UNTIL NEXT INSPECTION. (IF ALL THREE MARKED LINES ARE NOT VISIBLE, BRUSHES ARE TOO SHORT AND MUST BE REPLACED).	<i>J. Martin</i>
209	INSPECT DYNAMIC BRAKE BLOWER MOTORS AND FUEL BOOSTER PUMP MOTOR COMMUTATOR, SLIP RINGS AND BRUSHES. DRESS COMMUTATOR AS NECESSARY. REPLACE (IN SETS ONLY!) CHIPPED, CRACKED OR DAMAGED BRUSHES AND THOSE TOO SHORT TO LAST UNTIL NEXT INSPECTION. (IF ALL THREE MARKED LINES ARE NOT VISIBLE, BRUSHES ARE TOO SHORT AND MUST BE REPLACED).	<i>J. Martin</i>
210	REMOVE CARBON BUILD UP FROM CRANKCASE BREATHER PIPE IN EXHAUST STACK (IF EQUIPPED).	<i>Coiley</i>
211	REPLACE FUEL FILTER ELEMENT.	<i>T. Martin</i>
212	GREASE AND INSPECT GOVERNOR LINKAGE TO FUEL RACKS FOR PROPER OPERATION. APPLY TORQUE ADAPTER AND CHECK THAT TORQUE REQUIRED TO OPERATE LINKAGE DOES NOT EXCEED 25 FT.-LBS. DRAIN AND REFILL WITH NEW OIL (GE SPEC. D6B17F10, SAE 10W-30 GRADE SF OR BETTER); OPERATE ENGINE FOR FIVE (5) MINUTES TO CIRCULATE OIL, ADD OIL TO PROPER LEVEL WHILE ENGINE IS AT IDLE. CHECK	<i>Martin</i>
213	CHANGE ALL LUBE OIL FILTERS, CLEAN LUBE OIL STRAINER AND TAKE LUBE OIL SAMPLE	<i>Martin</i>
214	INSPECT ALL FLEXIBLE COUPLINGS. CHECK RUBBER BUSHINGS FOR DETERIORATION, REPLACE AS NECESSARY	<i>MH</i>

*Filters
just changed
11-11-10*

215	INSPECT EXHAUST MANIFOLD, HEAT SHIELDS, SILENCER AND EXHAUST STACK.	<i>A.P. Goodie</i>
216	CHECK OIL LEVEL OF RADIATOR FAN GEAR BOX. CLEAN FAN BLADES AND MAKE CLOSE VISUAL INSPECTION FOR CRACKS. IF ANY CRACKS ARE FOUND, REPLACE RADIATOR FAN.	<i>A.P. Goodie</i>
217	REPLACE BAGGIE AIR FILTERS WITH NEW ELEMENTS	<i>✓ A.P. Goodie</i> <i>Looked OK</i>
218	CLEAN EXTERIOR OF AIR COMPRESSOR INTERCOOLER AND INSPECT FOR LEAKAGE. CHECK OPERATION OF UNLOADERS. DRAIN OIL, CLEAN SUMP SCREEN, ADD NEW OIL, (GE SPEC D6B11D3) AND CLEAN FILTER (if applicable). REPLACE INLET AIR FILTERS. REPLACE CMV SYSTEM IN-LINE FILTER	<i>A.P. Goodie</i>
219	FREEDOM OF OPERATION	<i>A.P. Goodie</i>
220	INSPECT AND CLEAN ENGINE COALESCER AIR FILTER CARTRIDGE WITH MINERAL SPIRITS	_____
221	CLEAN ENGINE ROOM WITH APPROVED CLEANING AGENT. MAKE SURE PLATFORM DRAINS ARE NOT PLUGGED	<i>D. Black</i>
222	INSPECT COOLING SYSTEM FOR OIL AND CORROSION. CLEAN AS NECESSARY (MI 09601) CHECK COOLING WATER LEVEL AND WATER TREATMENT CONCENTRATION. ADD TREATED OR CLEAN WATER AND COMPATIBLE WATER TREATMENT COMPOUND AS NEEDED. REPLACE OR RECONDITION AMOT THERMOSTAT	<i>D. Black</i>
223	CHANGE OUT FUEL INJECTION NOZZLES. TORQUE NUTS IN HIGH PRESSURE LINE TO SPECIFICATION.	_____
224	LUBRICATE EQUIPMENT BLOWER BEARINGS (GE SPEC. D6A2C5)	<i>NA</i>
300	VISUALLY INSPECT ALL COMPONENTS OF THE CRANK CASE OF DIESEL ENGINE . PRESSURIZE THE COOLING SYSTEM AND BAR THE ENGINE OVER SLOWLY AND INSPECT THE INSIDE OF THE LINERS, BOTTOM OF PISTONS, ROD THRUST FACES ETC.	<i>M. Coyley</i> <i>D. Black</i>
301	TAKE AND RECORD CRANKSHAFT LATERAL MEASUREMENT	<i>D. Black</i>
302	VISUALLY INSPECT ALL CYLINDER INLET PORTS FOR CARBON BUILD UP. IF CARBON THICKNESS APPROACHES 6 MM IN ANY PORT, CLEAN ENTIRE ENGINE.	<i>Coyley</i> <i>Black</i>
303	CHECK CYLINDER TAPPET CLEARANCE AND ADJUST AS NECESSARY.	<i>Coyley Black</i>
304	CLEAN AND QUALIFY FUEL HEATER.	_____
400	INSPECT ENTIRE LOCOMOTIVE FOR LOOSE BOLTS, NUTS AND PIPE JOINTS. TIGHTEN OR REPAIR AS APPROPRIATE.	<i>Anna</i>

Just changed 11-11-10

401	CLEAN RADIATORS.	
402	INSURE THAT SAND BOXES ARE FULL.	Both front Boxes (empty)
403	INSPECT ALL HAND RAILS AND RAILINGS TO INSURE THEY ARE STRAIGHT AND SECURE.	Armer
404	INSPECT ALL LIGHT BULBS TO INSURE THEY ARE OPERATIONAL.	J. Martin
405	CHECK COUPLER HEIGHT (950 MM MIN, 1080 MM MAX, 1050 MM NOMINAL) AND DRAFT GEAR ON BOTH ENDS FOR FREE SLACK (FREE SLACK SHALL NOT EXCEED 13 MM) AND RECORD- FRONT: <u>1/4</u> REAR: <u>5/16</u>	Armer
406	WASH EXTERIOR OF BATTERY TRAYS. INSPECT BATTERIES FOR PROPER ELECTROLYTE LEVEL, FILLING AS NECESSARY, CHECK ALL ELECTRICAL CONNECTIONS, FLUSH AND GREASE TERMINALS AS NEEDED, CHECK AND RECORD SPECIFIC GRAVITY ON BACK OF THIS SHEET.	MC
407	TEST / QUALIFY MU JUMPER CABLE WITH TESTER	
500	PERFORM INTERNAL TRACTION MOTOR INSPECTION. INSPECT ALL VISIBLE INSULATION AND CONNECTIONS ON TRACTION MOTOR LEADS AND CARBODY BOOTS. INSPECT ALL CABLES FOR INDICATIONS OF RUBBING AGAINST OTHER CABLES OR THE BOGIES-ELIMINATE ANY RUBBING. CHECK MOTOR FLEXIBLE AIR DUCTS FOR LEAKS. CHECK FOR LOOSE OR MISSING TRACTION MOTOR COMMUTATOR COVERS. CHECK COMMUTATOR FOR DISCOLORATION AND DAMAGE. CHECK FOR CHIPPED, BROKEN OR DAMAGED BRUSHES. REPLACE BRUSHES IN SETS IF TOO SHORT TO LAST TO NEXT INSPECTION.	J. Martin
501	PERFORM TRACTION MOTOR LUBRICATION INSPECTION. CHECK FOR HEAVY FILM OF LUBRICANT ON GEAR TEETH. IF LOW, FILL TO BOTTOM OF LOWER INSPECTION OPENING (GE SPECIFICATION D50E8C) REPLACE LEAKING OR DEFECTIVE FILLER CAPS. DRAIN OIL FROM TRACTION MOTOR SUPPORT BEARINGS. REMOVE WICK ASSEMBLY. REFILL WITH NEW OIL (GE SPEC D50E14) NOTE: CLEAN DIRT AND DEBRIS FROM WICK, WICK PLATE AND FILL OPENING AREAS PRIOR TO INSPECTION OR FILLING. CHECK FOR SIGNS OF EXCESS HEAT AROUND THE SUPPORT BEARING CAPS AND DIRT SHIELD.	Armer

502	INSPECT WHEELS FOR CRACKS, SHELLED TREADS OR FLAT SPOTS. CHECK FOR PROPER RIM THICKNESS AND MAKE CORRECTIONS AS NECESSARY. COMPLETE WHEEL INSPECTION REPORT.	<i>Amer</i>
503	DRAIN WASTE OIL RETENTION TANK. INSPECT DRAIN TROUGHS ALONG THE WALKWAYS TO ENSURE DRAIN HOLES ARE NOT PLUGGED.	<i>Amer</i>
504	CHECK OIL LEVEL IN JOURNAL BOXES (IF APPLICABLE)	<i>Tim Ran Bearings</i>
505	CHECK TRACTION MOTOR NOSE SUSPENSION FOR DAMAGE, DETERIORATED RUBBER PADS, SEPARATION OF RUBBER FROM STEEL SEPARATORS AND FOR CRACKS IN PARTS OR AT WELDS. RENEW WEAR PLATES WHEN EXCESSIVELY WORN.	<i>Amer</i>
506	INSPECT TRUCK WEAR PLATES FOR PRESENCE, CRACKED WELDS AND EXCESSIVE WEAR. MEASURE PEDESTAL WEAR LINER WEAR AND REPLACE IF WORN TO 11 MM OR LESS. REPLACE AS NECESSARY. INSPECT SHOCK ABSORBERS FOR LEAKING CYLINDERS OR LOOSE MOUNTING HARDWARE. INSPECT TIE BAR BOLTS FOR TIGHTNESS	<i>Amer</i>
507	CHECK GEARCASE BOLTS FOR PROPER SECUREMENT BY GENTLY TAPPING WITH A HAMMER TO DETECT LOOSE BOLTS. IF LOOSE, TORQUE: CASE TO MOTOR-440-495 ft.-lbs., GEARCASE HALVES-185-210 ft.-lbs. REPLACE LEAKING OR DEFECTIVE FILLER CAPS.	<i>Amer</i>
508	DRAIN FUEL TANK CONDENSATION.	<i>D. Black</i>
509	INSPECT TRUCKS FOR LOOSE OR DRAGGING EQUIPMENT. REPAIR AS NEEDED. ENSURE THAT SAND PIPES ARE PROPERLY ALIGNED SO THAT THE SANDERS DEPOSIT SAND ON RAIL IN FRONT OF WHEELS.	<i>Amer</i>
510	INSPECT BRAKE RIGGING, BRAKE BLOCKS AND SLACK ADJUSTERS FOR EXCESSIVE WEAR. REPLACE BRAKE BLOCKS AS NEEDED. ADJUST SLACK ADJUSTER AS NEEDED FOR PROPER PISTON TRAVEL WHICH MUST NOT EXCEED 150 MM.	<i>Amer</i>
600	PERFORM OUTBOUND SELF LOAD TEST AND RECORD HP, AMPS, VOLTS, BATTERY VOLTS, WATER AND OIL TEMP	
601	ENSURE WATER GOES INTO RADIATOR AND TANK SITE GLASS IS LOWER AT APPROX 180 DEGREES ON WATER TANK TEMP GAGE	<i>D. Black</i>

602	PERFORM OUTBOUND AIR BRAKE LEAKAGE TESTS AND VERIFY AUTOMATIC AND INDEPENDENT WORK CORRECTLY. APPLY AUTOMATIC BRAKE TO FULL SERVICE POSITION, CUT OUT AIR VALVE, AND VERIFY THAT BRAKE CYLINDERS STAY APPLIED FOR FIVE (5) MINUTES.	<i>D. Blaw</i>
603	APPLY INDEPENDENT BRAKES, MOVE REVERSER TO FORWARD, OPEN THROTTLE AND OBSERVE AMPERAGE ON AMPERAGE METER. RETURN THROTTLE TO IDLE, MOVE REVERSER TO REVERSE, OPEN THROTTLE AND OBSERVE AMPERAGE ON AMPERAGE METER. IF NO AMPERAGE APPEARS, IDENTIFY AND CORRECT PROBLEM.	<i>D. Blaw</i>
604	CHECK SANDERS FOR PROPER OPERATION, COMPRESSOR PICK-UP AND DROP-OUT PRESSURES, AND INSPECT ANY OIL, FUEL OR WATER LEAKS CORRECTED.	<i>D. Blaw</i>
605	RUN AUTO SELF TEST USING DID PANEL.	
606	REVIEW COMMENT AND DEFECT SHEETS AND CORRECT ANY DEFECTS NOT CORRECTED.	
0	SUPERVISOR'S SIGNATURE	

Comp. Test

	R	L
1	330	1 340
2	325	2 300
3	310	3 335
4	350	4 325
5	325	5 350
6	325	6 300
7	290	7 310
8	315	8 330

Montreal, Maine, & Atlantic Railway
Locomotive

Unit 8583

Date 12-29-10

3 Month Federal Air Work

Signature

1. Inspect and repair air piping and valves for leaks Ames
2. Test all air gauges with gauge tester and set if required..... Ames
3. With full brake pipe pressure, make a 20lb. reduction, move the cutoff valve to "OUT" position and move the lead - dead valve to "DEAD" position. Brakes must remain applied for 5 minutes..... Ames
4. Cover each trainline hose coupling with hand and test for leakage through valve, then apply blank dummy couplings to the trainline hoses on each end of the unit and open trainline valves. Make a 20lb. reduction with the Automatic, move the cutoff valve to "OUT" position and check for brake pipe leakage. Leakage shall not exceed 5 lb. per minute..... Ames
5. Reduce main reservoir pressure to 85 lbs. by draining #2 main reservoir.(*). Check cab gauge for leakage from main reservoirs and piping for 3 minutes. Leakage must not exceed an average of 3 lb. per minute during the test..... Ames
6. Drain #1 main reservoir (*) completely and test check valve between reservoirs. Pressure should remain on the main reservoir gauge in the cab as #1 main reservoir is drained..... Ames
7. Check all MU valve handles to ensure the locking devices work properly. Lubricate or replace as necessary..... Ames
8. Check knuckle thrower to make sure it opens the knuckle. Lubricate or repair as necessary..... Ames

Note (*) #1 reservoir is without the check valve.# 2 is with the check valve.

Montreal, Maine and Atlantic Railway
12 Month Airwork

Unit Number 85 83

Date 12-28-10

1. Test resistance of Electrical Equipment to Ground:
 - a. Hi Voltage System..... J. Hays
 - b. Low Voltage System..... _____
 - c. A/C System..... _____
2. Check Fire Extinguisher..... TP Goodie
3. Lubricate Brake Pistons..... Ames
4. Measure slack in draft gears & record: Front 1/4 Rear 5/16 Ames
5. Change Main Reservoir Relief Valve..... Ames
6. Remove and clean Salem Filters..... Ames
7. Remove and clean Dirt Filter..... Ames
8. Check Compressor on/off pressures..... _____
9. Check Brake Pipe pressures (90lbs.)..... Ames
10. Check Brake Cylinder Pressure with Auto Application..... Ames
11. Check Independent Brake Pressure..... Ames
12. Cut out Compressor Unloader and test Main Reservoir Relief Valve.
(Should pop @ 155psi)..... Ames
13. Inspect and test Hand Brake..... Ames
14. Change Air Compressor oil and Filter (wipe out base)..... TP Goodie
15. Inspect Air Compressor Rod Bolts, Brgs., and Oil Pump... TP Goodie
16. Check Oil pressure @ idle and record..... _____
17. Change Oil in Dash 7:
 - a. Alternator..... _____
 - b. Fan Drive..... TP Goodie - Greased -
18. Check Engine Adjustments..... Cotley Black
19. Clean Air Boxes..... Cotley Black
20. Clean Diode Bank in Dash 8's..... _____

Comments:

unit no. 8583

Date 12-27-10

26 L EQUIPMENT. (UNITS 26-29, 300-303, 40-4305 and 81-90)

- 1. Change Automatic Brake Valve Portion. Amer
- 2. Change Independent Brake Valve. Amer
- ✓ 3. Change A-1 Charging Cutoff Pilot Valve. Amer
- 4. Change Control Valve Portion:
 - a. Service Portion. Amer
 - b. Quick Release Portion. Amer
- 5. Change P-2-A Application Valve. Amer
- 6. Change Overspeed Magnet Valve (Salem 816-1). Amer
- 7. Change Compressor Unloader Magnet Valve.
- 8. Change Out Compressor Intake Air Filters. P.Boode
- 9. Remove and Wash Inertial Air Separators.
- 10. Change J-relay air valve. Amer
- 11. Clean Six 2-Way Checks. Amer
- 12. Change Air Compressor Intake Air Filters. T.P. Goodline
- 13. Change Oil in Air Compressor. P.Boode
- ✓ 14. Change #8 vent valve. Amer

Comments:

~~was checked for A-1 charging valve~~
~~and #8 vent valve, (A-1 charging valve)~~

BRUSH RECORD

UNIT # _____

DATE _____

MAIN ALTERNATOR

POS	1	2	3	4	B	W
9						
10						
11	OK					
12						
1						
2						

SIGNATURE J. Mark

NO. 1 TRACTION MOTOR

POS	1	2	3	B	W
3					
6	OK				
9					
12					

SIGNATURE J. Mark

NO. 2 TRACTION MOTOR

POS	1	2	3	B	W
3					
6	OK				
9					
12					

SIGNATURE J. Mark

AUXILIARY GENERATOR

POS	1	2	3	B	W
2					
4	X				
8					
10					

SIGNATURE _____

NO. 3 TRACTION MOTOR

POS	1	2	3	B	W
3					
6	OK				
9					
12					

SIGNATURE J. Mark

NO. 4 TRACTION MOTOR

POS	1	2	3	B	W
3					
6	OK				
9					
12					

SIGNATURE J. Mark

EXCITER GENERATOR

POS	1	2	3	B	W
2					
4	X				
8					
10					

SIGNATURE _____

~~NO. 5 TRACTION MOTOR~~ Cab Heaters

POS	1	2	3	B	W
3					
6	OK				
9					
12					

SIGNATURE J. Mark

~~NO. 6 TRACTION MOTOR~~

POS	1	2	3	B	W
3					
6	OK				
9					
12					

SIGNATURE J. Mark

DYNAMIC BRAKING BLOWER MOTORS

FRONT

POS	1	B	W
2			
4			
8	OK		
10			

SIGNATURE J. Mark

REAR

POS	1	B	W
2			
4			
8	OK		
10			

SIGNATURE J. Mark

FUEL PUMP MOTOR

POS	1	B	W
3			
9			

SIGNATURE Brushless

Down load Event Recorder X

Montreal, Maine, & Atlantic Railway
Mechanical Department

Unit Number. 8583

Date 12-22-10

1. Inspect traction motor wicks and report action

- | | | | |
|-----|-----------|-----|-------------|
| #1. | <u>OK</u> | ... | <u>Amer</u> |
| #2. | <u>OK</u> | ... | <u>Amer</u> |
| #3. | <u>OK</u> | ... | <u>Amer</u> |
| #4. | <u>OK</u> | ... | <u>Amer</u> |
| #5. | | ... | |
| #6. | | ... | |

checked all wick Boxes for
water. all Boxes had no water
in oil Amer 12-22-10



Service Operations

UNIT _____

DATE _____

THROTTLE 8 OUTBOUND LOAD TESTS

Eng RPM (900)	EMD	_____	Lube Oil Pres	_____
Eng RPM (1050)	GE	_____	Water Temp	_____
Horsepower		_____	Overspeed Setting	_____
Volts (5.3)	B-23	_____	RACK SETTING	_____
Volts (7)	C-30	_____		
Volts (720)	B-39	_____		

THROTTLE #1 STALL TEST

OP Mode	(PWR)	_____	
AMPS	(300)	_____	
MGA	(1220)	_____	NOT APPLICABLE TO B-23 AND C-30
Charging Rate	(70v)	_____	

WINTERIZATION	
	Signature
Winterization - All MMA Locomotives. (August - April)	
Inspect front and rear cab door seals replace, as needed (NO TAPE)	Ames
Inspect left and right side window seals replace as needed.	Ames
Inspect Electric cabinet door seals replace as needed.	Ames
Operate Cab Heaters-Check condition of Heater Assembly @ 45o F above Ambient Temperature.	
Operate Window Defrosters-Check condition of Defroster @ 45o F above Ambient Temperature.	
If equipped, test the Auto Dump valve for proper operation.	
Test Manual Water Dump Valves, Proper Handle, Location, Orifice is Open.	Conley
Close Winter/ Summer doors if equipped.	Ames
Check Traction Motor cover gaskets, install as needed.	Stark
Check condition of Cab Door Hinges (Lubricate all Hinges)	Ames
Check condition of Cab Door Locks (Lubricate all Locks)	Ames
Inspect Cab Windows Slider Rail, Adjust Top Rail as needed, Lubricate with Silicone Grease.	Ames
Renew all Wiper Blades.	Ames
Criteria for Door seal Replacement: A. Seal shows signs of Deterioration and or Medium to Heavy Cracking. B. Door seal is Torn or Loose from Door. C. With Door in the fully closed position has noticeable crack between door jam and cab carbody.	OK
Criteria for Window seal Replacement: A. Seals shows signs of Deterioration and or Medium to Heavy Cracking. B. Seal is Torn or Loose from window seal. C. With windows fully in the closed position there is a gap between window frame and carbody.	OK.



B-23, B-39, C-30, GP-7 M12 MAINTENANCE

LOCOMOTIVE INSPECTION REPORT AIR99		SIGNATURE
	RECORDED DATE	(STENCIL DATE)
26 INDEPENDENT BRAKE VALVE	12-28-10	Amer
26 C AUTOMATIC BRAKE VALVE	12-28-10	Amer
HB5D RELAY AIR VALVE (NOTE IF		
26 F CONTROL VALVE	12-27-10	Amer
A-1 CHARGING VALVE	12-28-10	Amer
P-2-A PENALTY BRAKE APPLICATION	12-28-10	Amer
F-1 SELECTOR VALVE (NOTE IF NOT		
MU2A VALVE	12-28-10	Amer
J-1 RELAY AIR VALVE	12-27-10	
J-1.6-16 RELAY AIR VALVE	12-27-10	Amer
QUICK RELEASE PORTION	12-27-10	Amer
#8 VENT ENGINEER'S SIDE (NOTE IF	12-28-10	Amer
#8 VENT FIREMAN'S SIDE (NOTE IF	12-28-10	Amer
MAIN RESERVOIR POP VALVE Check	12-27-10	Amer
CHANGE ALL MAIN RESERVOIR AND DIRT COLLECTOR ELEMENTS	Amer 12-27-10	Amer

The equipment above is to be changed out every 24 months. If the date dictates it needs changed, please change it.

LOCOMOTIVE												DATE		
8583												12-22-10		
Start Readings					Has Shims		END READING					Has Shims		OLD GAUGE
L#1	Flange Height	Flange Thickness	Rim Thickness	Witness Groove	YES	NO	L#1	Flange Height	Flange Thickness	Rim Thickness	Witness Groove	YES	NO	FLANGE THICKNESS MEASUREMENT
L#1	0.19	0.0	3.00				L#1							
L#2	0.21	0.0	3.07				L#2							
L#3	0.22	0.0	3.06				L#3							
L#4	2.22	0.0	3.06				L#4	0.22	0.0	3.06				
L#5							L#5							
L#6							L#6							
R#1	0.19	0.0	3.00				R#1							
R#2	0.21	0.0	3.07				R#2							
R#3	0.22	0.0	3.06				R#3							
R#4	2.22	0.0	3.06				R#4	0.22	0.0	3.06				
R#5							R#5							
R#6							R#6							

WEAR LIMITS FOR ROAD & SWITCH LOCOMOTIVES - MINIMUM DAILY REQUIREMENTS

FRA 1 1/2" MMA 1 7/16" Flange Height
 FRA 7/8" MMA 15/16" Flange Thickness
 FRA 1" MMA 1 1/16" Rim Thickness
 FRA 5/16" MMA 1/4" Tread Wear

NEW GAUGE	
0-on-17--1-1/16"	
0-on-18--1-1/8"	
0-on-19--1-3/16"	
0-on-20--1-1/4"	
0-on-21--1-5/16"	
0-on-22--1-3/8"	
2-on-22--1-13/32"	
4-on-22--1-7/16"	
6-on-22--1-15/32"	
8-on-22--1-1/2"	

FLANGE HEIGHT MEASUREMENT

WEAR LIMITS - ROAD & SWITCH LOCOS - MIN 92 DAY REQ

WEAR LIMITS - PASSENGER LOCOS - MIN 92 DAY REQ

FLANGE Height	Flange THICKNESS	Rim THICKNESS	Tread WEAR	Flange HEIGHT	Flange THICKNESS	Rim THICKNESS	Tread WEAR
FRA 1 1/2"	FRA 7/8"	FRA 1"	FRA 5/16"	FRA 1 1/2"	FRA 7/8"	FRA 1"	FRA 5/16"
MMA 1 7/16"	MMA 1 1/32"	MMA 1 1/8"	MMA 1/4"	MMA 1 7/16"	MMA 1"	MMA 1 1/4"	MMA 1/4"

CONVERSION CHART FOR WHEEL DIAMETER

8=	37"	15=	37 7/8"	22=	38 3/4"	29=	39 5/8"	36=	40 1/2"
9=	37 1/8"	16=	38"	23=	38 7/8"	30=	39 3/4"	37=	40 5/8"
10=	37 1/4"	17=	38 1/8"	24=	39"	31=	39 7/8"	38=	40 3/4"
11=	37 3/8"	18=	38 1/4"	25=	39 1/8"	32=	40"	39=	40 7/8"
12=	37 1/2"	19=	38 3/8"	26=	39 1/4"	33=	40 1/8"	40=	41"
13=	37 5/8"	20=	38 1/2"	27=	39 3/8"	34=	40 1/4"	41=	41 1/8"
14=	37 3/4"	21=	38 5/8"	28=	39 1/2"	35=	40 3/8"	42=	41 1/4"

FLANGE THICKNESS MEASUREMENT

NEW GAUGE	
0-on-9--1-17/64"	
1-on-9--1-15/64"	
2-on-9--1-7/32"	
3-on-9--1-5/32"	
4-on-9--1-7/64"	
5-on-9--1-3/64"	
6-on-9--1-1/32"	
7-on-9--5/64"	
8-on-9--15/64"	

LOCOMOTIVE RAIL CLEARANCE

COUPLER HEIGHT	FRONT	PILOT HEIGHT		FRONT	HEIGHT OF HORIZONTAL END HANDHOLD OR UNCOUPLING LEVER IF USED AS HORIZONTAL HANDHOLD		LOCO RAIL CLEARANCE
FRA	MAX 34 1/2" MIN 31 1/2"	34 1/2"	FRA MAX 6" MIN 3"	5 1/2"	FRA MIN 30"	FRA MIN 2 1/2"	
MMA	MAX 34 1/2" MIN 32 1/2"	34 1/2"	MMA MAX 6" MIN 3 1/2"	5 1/2"	MMA MIN 30"	MMA MIN 3"	OK OK

*WHEEL DIAMETER MEASUREMENTS ARE TAKEN FROM THE TOP OF THE WITNESS GROOVE 40" DIAMETER WHEELS WITNESS GROOVE = 36"
 42" DIAMETER WHEEL WITNESS GROOVE = 38"

WHEEL MATCHING STANDARDS FOR 6 AXLE LOCOMOTIVES (FRA & MMA STANDARDS ARE THE SAME)

- 1) IS THE MAXIMUM VARIATION ALLOWED IN WHEEL DIAMETER BETWEEN ANY 2 WHEELS IN THE SAME TRUCK WITHOUT SHIMS
- 1.1) IS THE MAXIMUM VARIATION ALLOWED IN WHEEL DIAMETER BETWEEN ANY 2 WHEELS IN THE SAME TRUCK WITH SHIMS APPLIED
- 1.2) IS THE MAXIMUM VARIATION ALLOWED IN WHEEL DIAMETER BETWEEN ANY 2 WHEELS ON DIFFERENT TRUCKS

NOTE: WHEELS MUST BE DIFFERENT WHEEL DIAMETER. THE MAXIMUM VARIATION IN WHEEL DIAMETER FOR A 6 AXLE LOCOMOTIVE IS 1/8" PER WHEEL. REMEMBER THIS RULE!
 1) IS THE MAXIMUM VARIATION ALLOWED IN WHEEL DIAMETER BETWEEN ANY 2 WHEELS IN THE SAME TRUCK WITHOUT SHIMS APPLIED. NOTE: WHEELS MUST BE DIFFERENT WHEEL DIAMETER.
 1.1) IS THE MAXIMUM VARIATION ALLOWED IN WHEEL DIAMETER BETWEEN ANY 2 WHEELS IN THE SAME TRUCK WITH SHIMS APPLIED. NOTE: WHEELS MUST BE DIFFERENT WHEEL DIAMETER.
 1.2) IS THE MAXIMUM VARIATION ALLOWED IN WHEEL DIAMETER BETWEEN ANY 2 WHEELS ON DIFFERENT TRUCKS. NOTE: WHEELS MUST BE DIFFERENT WHEEL DIAMETER.

EMPLOYEES SIGNATURE

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SUPERVISORS SIGNATURE