

Montreal, Maine and Atlantic Railway
12 Month Airwork

Unit Number 8569

Date 1-9-12

1. Test resistance of Electrical Equipment to Ground:
 - a. Hi Voltage System..... 4 MΩ @ 1000V *[Signature]*
 - b. Low Voltage System... ~~500MΩ @ 250V~~ *[Signature]*
 - c. A/C System..... 500MΩ @ 250V *[Signature]*
2. Check Fire Extinguisher..... *[Signature]*
3. Lubricate Brake Pistons..... *[Signature]*
4. Measure slack in draft gears & record: Front _____ Rear _____
5. Change Main Reservoir Relief Valve..... _____
6. Remove and clean Salem Filters..... B. Clean
7. Remove and clean Dirt Filter..... _____
8. Check Compressor on/off pressures..... _____
9. Check Brake Pipe pressures (90lbs.)..... B. Clean
10. Check Brake Cylinder Pressure with Auto Application..... B. Clean
11. Check Independent Brake Pressure..... B. Clean
12. Cut out Compressor Unloader and test Main Reservoir Relief Valve.
(Should pop @ 155psi)..... _____
13. Inspect and test Hand Brake..... _____
14. Change Air Compressor oil and Filter (wipe out base)..... B. Clean
15. Inspect Air Compressor Rod Bolts, Brgs., and Oil Pump... _____
16. Check Oil pressure @ idle and record..... _____
17. Change Oil in Dash 7:
 - a. Alternator..... -NA-
 - b. Fan Drive..... -NA-
18. Check Engine Adjustments..... B. Clean
19. Clean Air Boxes..... B. Clean
20. Clean Diode Bank in Dash 8's..... *[Signature]*

Comments:

Montreal, Maine, & Atlantic Railway
Locomotive

Unit 8569

Date 1-10-12

3 Month Federal Air Work

Signature

1. Inspect and repair air piping and valves for leaks Braun
2. Test all air gauges with gauge tester and set if required..... Braun
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..... Braun
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..... Braun
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..... Braun
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..... Braun
7. Check all MU valve handles to ensure the locking devices work properly. Lubricate or replace as necessary..... Braun
8. Check knuckle thrower to make sure it opens the knuckle. Lubricate or repair as necessary..... Braun

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

BRUSH RECORD

UNIT # _____

DATE _____

MAIN ALTERNATOR

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

SIGNATURE _____

NO. 1 TRACTION MOTOR

POS	1	2	3	B	W
3					
6					
9					
12					

SIGNATURE _____

NO. 2 TRACTION MOTOR

POS	1	2	3	B	W
3					
6					
9					
12					

SIGNATURE _____

NO. 3 TRACTION MOTOR

POS	1	2	3	B	W
3					
6					
9					
12					

SIGNATURE _____

NO. 4 TRACTION MOTOR

POS	1	2	3	B	W
3					
6					
9					
12					

SIGNATURE _____

AUXILIARY GENERATOR

POS	1	2	3	B	W
2					
4					
8					
10					

SIGNATURE _____

NO. 5 TRACTION MOTOR

POS	1	2	3	B	W
3					
6					
9					
12					

SIGNATURE _____

NO. 6 TRACTION MOTOR

POS	1	2	3	B	W
3					
6					
9					
12					

SIGNATURE _____

EXCITER GENERATOR

POS	1	2	3	B	W
2					
4					
8					
10					

SIGNATURE _____

DYNAMIC BRAKING BLOWER MOTORS

FRONT

POS	1	3	W
2			
4			
8			
10			

SIGNATURE _____

REAR

POS	1	B	W
2			
4			
8			
10			

SIGNATURE _____

FUEL PUMP MOTOR

POS	1	B	W
3			
9			

SIGNATURE _____

Down load Event Recorder X

8569 1-9-12

- Comp test -

R	L
1-360	340
2-390	320
3-340	310
4-340	325
5-420	280
6-325	280
7-340	345
8-340	380

K. Hasy

LOCOMOTIVE MMA 8569										DATE				
Start Readings					Has Shims		END READING					Has Shims		OLD GAUGE
	Flange Height	Flange Thickness	Rim Thickness	Witness Groove	YES	NO		Flange Height	Flange Thickness	Rim Thickness	Witness Groove	YES	NO	FLANGE THICKNESS MEASUREMENT
L#1	0-19	0-0	49				L#1							0-on 0-1-17/64"
L#2	0-18	0-0	48				L#2							1-on 0-1-15/64"
L#3	0-20	0-0	44				L#3							2-on 0-1-7/32"
L#4	0-19	0-0	48				L#4							3-on 0-1-5/32"
L#5							L#5							4-on 0-1-7/64"
L#6							L#6							5-on 0-1-3/64"
														6-on 0-1-1/32"
														7-on 0-63/64"
														8-on 0-15/16"
														OLD GAUGE
														FLANGE THICKNESS MEASUREMENT
R#1	0-18	0-0	49				R#1							0-on 0-1"
R#2	0-18	0-0	48				R#2							0-on 1-1-1/16"
R#3	0-21	0-0	44				R#3							0-on 2-1-1/8"
R#4	0-19	0-0	48				R#4							0-on 3-1-3/16"
R#5							R#5							0-on 4-1-1/4"
R#6							R#6							0-on 5-1-5/16"
														0-on 6-1-3/8"
														2-on 6-1-13/32"
														4-on 6-1-7/16"
														6-on 6-1-31/64"

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 THICKNESS 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 1/16"	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 1/2"	29= 39 5/8"	36= 40 1/2"
9= 37 1/8"	16= 38"	23= 38 7/8"	30= 39 1/4"	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 1/2"	33= 40 1/8"	40= 41"
13= 37 5/8"	20= 38 1/2"	27= 39 3/4"	34= 40 1/4"	41= 41 1/8"
14= 37 3/4"	21= 38 5/8"	28= 39 5/8"	35= 40 3/8"	42= 41 1/4"

NEW GAUGE

FLANGE THICKNESS MEASUREMENT

0-on 0-1-17/64"
 1-on 0-1-15/64"
 2-on 0-1-7/32"
 3-on 0-1-5/32"
 4-on 0-1-7/64"
 5-on 0-1-3/64"
 6-on 0-1-1/32"
 7-on 0-63/64"
 8-on 0-15/16"

LOCOMOTIVE RAIL CLEARANCE

COUPLER HEIGHT		FRONT	PILOT HEIGHT		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"	33 1/2"	FRA	MAX 6" MIN 3 1/2"	5"	FRA MIN 30" MMA MIN 30" FRA MAX 50" MMA MAX 50"	FRA MIN 2 1/2" MMA MIN 3"
MMA	MAX 34 1/2" MIN 32 1/2"	33 1/2"	MMA	MAX 6" MIN 3 1/2"	5 1/4"		

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)

3/4" IS THE MAXIMUM VARIATION ALLOWED, IN WHEEL DIAMETER, BETWEEN ANY 2 WHEELS IN THE SAME TRUCK WITHOUT SHIMS.
 1 1/4" IS THE MAXIMUM VARIATION ALLOWED, IN WHEEL DIAMETER, BETWEEN ANY 2 WHEELS IN THE SAME TRUCK WITH SHIMS APPLIED.
 1 1/2" IS THE MAXIMUM VARIATION ALLOWED, IN WHEEL DIAMETER, BETWEEN ANY 2 WHEELS ON DIFFERENT TRUCKS.

R-2 Brake Hanger Bent

NOTE: WHEN FIGURING THE DIFFERENCE IN WHEEL DIAMETER, TO DETERMINE IF SHIMS ARE REQUIRED, YOU MUST USE THE AVERAGE WHEEL DIAMETER FIGURES
 REMEMBER THIS RULE

6 TO 5 DIAMETER DIFFERENCE NO SHIMS REQUIRED 6 TO 10 DIAMETER DIFFERENCE ADD APPROPRIATE SHIMS TO BOTH BOXES ON BOTH SIDES OVER 10 IN DIAMETER DIFFERENCE REQUIRES WHEEL CHANGE OR TRUED. NOTE: ON EMD LOCOMOTIVES USE ONLY ONE 1/2" SHIM EMD PART NUMBER 8455981 SHELLED TREAD AND FLAT SPOTS MUST BE TRUED OR CHANGED WHEN FOUND ON PERIODIC OR UNSCHEDULED MAINTENANCE. KCS CONDEMNING LIMITS FOR SHELLED TREAD ON A SERVICE TRACK.
 * ONE SHELLED SPOT 1" OR GREATER IN LENGTH * ONE SHELLED SPOT WITH A DEPTH OF 1/4" OR MORE.

EMPLOYEES SIGNATURE

[Signature Line]

SUPERVISORS SIGNATURE

[Signature Line]

8569 MO-12

MM&A 1104 DAY INSPECTION SHEET

PAGE 1 of 4

LOCATION: *DERRY, MAINE* DATE: *1-6-12*

LOCOMOTIVE NO. *8569*

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>[Signature]</i>
101	SELF LOAD UNIT OUTSIDE. RECORD KW, AMPS AND VOLTS <i>701 volts - 3837 AMPS - 3731 HP.</i>	<i>[Signature]</i>
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>[Signature]</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.	
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.	<i>[Signature]</i>
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.	<i>[Signature]</i>
106	CHECK AIR COMPRESSOR OIL LEVEL WITH ENGINE AT IDLE.	<i>[Signature]</i>
107	CHECK OIL LEVEL IN ALTERNATOR GEAR TRAIN. ADD DIESEL ENGINE OIL AS NEEDED.	-NA-
108	CHECK OPERATION OF WINDOW WIPERS. REPLACE BLADES AS NECESSARY.	Bill Cleary
109	CHECK COOLING WATER LEVEL AND WATER TREATMENT CONCENTRATION. ADD TREATED OR CLEAN WATER AND COMPATIBLE WATER TREATMENT COMPOUND AS NEEDED.	<i>[Signature]</i>
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.	Don Brown
112	CHECK OPERATION OF ENGINE AIR FILTER PRESSURE SWITCH PER GETS MI GEK-18104.	-NA-
113	CHECK OPERATION OF EMERGENCY FUEL TRIPS AND THROTTLE STOPS	

Filled toilet with Low-Temp

[Signature]

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	Bill Cleary
117	RUN MANUAL SELF TEST USING DID PANEL.	
118	CHECK AND VERIFY OPERATION OF SPEEDOMETER	<i>[Signature]</i>
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.	Bill Cleary DM Braun
121	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>[Signature]</i>
122	CHECK OPERATION OF CAB HEATERS AND REFRIGERATOR. MAKE REPAIRS AS NECESSARY.	<i>[Signature]</i>
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	Braun Cleary
201	CLEAN AND INSPECT CAB. MAKE SURE NO TOOLS OR DEBRIS IS ON THE FLOOR. CLEAN WINDOWS INSIDE AND OUT.	Braun Cleary
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	
203	INSPECT ELECTRICAL EQUIPMENT POWER CONTACTOR TIPS, ARC CHUTES AND INTERLOCK PLUNGER BOLTS. CHECK FOR BURNED WIRING AND LOOSE OVERHEATED ELECTRICAL	<i>[Signature]</i>

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>David Spakewitz</i>
205	TEST ALL GAUGES FOR ACCURACY	Braun Clear
206	INSPECT LOW PRESSURE FUEL HOSE. REPLACE AS NECESSARY.	
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>David Spakewitz</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>David Spakewitz</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>David Spakewitz</i>
210	REMOVE CARBON BUILD UP FROM CRANKCASE BREATHER PIPE IN EXHAUST STACK (IF EQUIPPED).	BClear
211	REPLACE FUEL FILTER ELEMENT.	have no filters
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>Braun Clear grease</i>
213	CHANGE ALL LUBE OIL FILTERS, CLEAN LUBE OIL STRAINER AND TAKE LUBE OIL SAMPLE	<i>Don Braun</i>
214	INSPECT ALL FLEXIBLE COUPLINGS. CHECK RUBBER BUSHINGS FOR DETERIORATION, REPLACE AS NECESSARY	none
	CHANGE AUX-GAB FILTERS	<i>David Spakewitz</i>


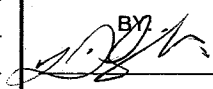
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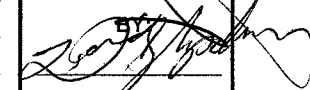
215	INSPECT EXHAUST MANIFOLD, HEAT SHIELDS, SILENCER AND EXHAUST STACK.	Bill Cleary
216	CHECK OIL LEVEL OF RADIATOR FAN GEAR BOX. CLEAN FAN BLADES AND MAKE CLOSE VISUAL INSPECTION FOR CRACKS. IF ANY CRACKS ARE FOUND, REPLACE RADIATOR FAN.	none
217	REPLACE BAGGIE AIR FILTERS WITH NEW ELEMENTS	OK
218	CLEAN 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	Bill Cleary
219	FREEDOM OF OPERATION	
220	INSPECT AND CLEAN ENGINE COALESCER AIR FILTER CARTRIDGE WITH MINERAL SPIRITS	Dave?
221	CLEAN ENGINE ROOM WITH APPROVED CLEANING AGENT. MAKE SURE PLATFORM DRAINS ARE NOT PLUGGED	
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	Bill Cleary
223	CHANGE OUT FUEL INJECTION NOZZLES. TORQUE NUTS IN HIGH PRESSURE LINE TO SPECIFICATION.	N/A
224	LUBRICATE EQUIPMENT BLOWER BEARINGS (GE SPEC. D6A2C5)	Braun Cleary
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.	Dan Braun
301	TAKE AND RECORD CRANKSHAFT LATERAL MEASUREMENT	.016
302	VISUALLY INSPECT ALL CYLINDER INLET PORTS FOR CARBON BUILD UP. IF CARBON THICKNESS APPROACHES 6 MM IN ANY PORT, CLEAN ENTIRE ENGINE.	OK Dan Braun per Duffy
303	CHECK CYLINDER TAPPET CLEARANCE AND ADJUST AS NECESSARY.	
304	CLEAN AND QUALIFY FUEL HEATER.	
400	INSPECT ENTIRE LOCOMOTIVE FOR LOOSE BOLTS, NUTS AND PIPE JOINTS. TIGHTEN OR REPAIR AS APPROPRIATE.	Cleary

Unit: 8569

Date: 1-9-12

DEFECTS FOUND DURING INSPECTION

DEFECT <u>Bus Bar leads off main gen unsecured-broken zip-ties</u>	INSPECTED BY: 
REPAIR <u>Replaced broken zip ties</u>	CORRECTED BY: 

DEFECT <u>2 B-O sockets (right) at rear number lights</u>	INSPECTED BY: 
REPAIR <u>yo 2 B-O sockets</u>	CORRECTED BY: 

DEFECT _____	INSPECTED BY: _____
REPAIR _____	CORRECTED BY: _____

DEFECT _____	INSPECTED BY: _____
REPAIR _____	CORRECTED BY: _____

DEFECT _____	INSPECTED BY: _____
REPAIR _____	CORRECTED BY: _____

401	CLEAN RADIATORS.	
402	INSURE THAT SAND BOXES ARE FULL.	
403	INSPECT ALL HAND RAILS AND RAILINGS TO INSURE THEY ARE STRAIGHT AND SECURE.	DAN BROWN
404	INSPECT ALL LIGHT BULBS TO INSURE THEY ARE OPERATIONAL. <i>SEE DEFECTS</i>	<i>[Signature]</i>
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>33 1/2</u> REAR: <u>33 1/2</u>	Bill Cleary
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. ←	<i>[Signature]</i> Batt @ 67.8V @ switch
407	TEST / QUALIFY MU JUMPER CABLE WITH TESTER	-NA-
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.	<i>[Signature]</i>
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.	

Forward Bias @ 33.4V

1.25	1.28	1.28	1.28
1.25	1.28	1.28	1.22
1.25	←	→	1.25
1.25	←	→	1.25

Back Bias @ 34.1V

1.25	↔		1.25
1.25	↔		1.25
1.25	1.27	1.25	1.25
1.25	↔	↔	1.25

502	INSPECT WHEELS FOR CRACKS, SHELLED TREADS OR FLAT SPOTS. CHECK FOR PROPER RIM THICKNESS AND MAKE CORRECTIONS AS NECESSARY. COMPLETE WHEEL INSPECTION REPORT.	Self Bill Cleary
503	DRAIN WASTE OIL RETENTION TANK. INSPECT DRAIN TROUGHS ALONG THE WALKWAYS TO ENSURE DRAIN HOLES ARE NOT PLUGGED.	
504	CHECK OIL LEVEL IN JOURNAL BOXES (IF APPLICABLE)	REL 3 OK Bill Cleary
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.	
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	
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.	
508	DRAIN FUEL TANK CONDENSATION.	
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.	
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.	
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	

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.	
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.	
604	CHECK SANDERS FOR PROPER OPERATION, COMPRESSOR PICK-UP AND DROP-OUT PRESSURES, AND INSPECT ANY OIL, FUEL OR WATER LEAKS CORRECTED.	
605	RUN AUTO SELF TEST USING DID PANEL.	
606	REVIEW COMMENT AND DEFECT SHEETS AND CORRECT ANY DEFECTS NOT CORRECTED.	
0	SUPERVISOR'S SIGNATURE	

BRUSH RECORD

UNIT = 8569

DATE 1-9-11

MAIN ALTERNATOR

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

SIGNATURE [Signature]

NO. 1 TRACTION MOTOR

POS	1	2	3	B	W
3	OK				
6	OK				
9	OK				
12	OK				

SIGNATURE [Signature]

NO. 2 TRACTION MOTOR

POS	1	2	3	B	W
3	OK				
6	OK				
9	OK				
12	OK				

SIGNATURE [Signature]

AUXILIARY GENERATOR

POS	1	2	3	B	W
2	OK				
4	OK				
8	OK				
10	OK				

SIGNATURE [Signature]

NO. 3 TRACTION MOTOR

POS	1	2	3	B	W
3	OK				
6	OK				
9	OK				
12	OK				

SIGNATURE [Signature]

NO. 4 TRACTION MOTOR

POS	1	2	3	B	W
3	OK				
6	OK				
9	OK				
12	OK				

SIGNATURE [Signature]

NO. 5 TRACTION MOTOR

POS	1	2	3	B	W
3					
6					
9					
12					

SIGNATURE _____

NO. 6 TRACTION MOTOR

POS	1	2	3	B	W
3					
6					
9					
12					

SIGNATURE _____

EXCITER GENERATOR

POS	1	2	3	B	W
2					
4					
8					
10					

SIGNATURE NA

DYNAMIC BRAKING BLOWER MOTORS

FRONT

POS	1	B	W
2	OK		
4	OK		
8	OK		
10	OK		

SIGNATURE [Signature]

REAR

POS	1	B	W
2	OK		
4	OK		
8	OK		
10	OK		

SIGNATURE [Signature]

FUEL PUMP MOTOR

POS	1	B	W
3	OK		
9	OK		

SIGNATURE [Signature]

Down load EVENT RECORDER [Signature]



Quantum Desktop Playback

Manufacturer is QEI Version # S45E
Serial Number is 0208020125
Customer is MMR

Data was removed on - 13:50:07 on 01/07/12
Last Downloaded on - 15:33:00 on 10/13/11
Battery was installed on - 02/13/08
Locomotive Number is - MMA 8569

Downloaded by - David Stupakewicz
Location - Derby, Maine, US
Train - MMA#1
Wheel Size Entry - 42.6
Wheel Size used by program:
Circumference = 133.8 Diameter = 42.6
No memo present.

Wheel size used for printout is 133.83

QDP Version V



Quantum Desktop Playback
Data Scan Report

Report Date: 01-07-2012
Locomotive MMA 8569

Data Removed on 01-07-12

SPEED (MPH)	OK
TRACTION MOTOR CURRENT	OK
BRAKE PIPE PRESSURE	OK
INDEPENDENT BRAKE	OK
END-OF-TRAIN PSI	Never above 20.
EP BRAKE REQUESTED	Never ON/ACTIVE
THROTTLE	Stop never reported. Low Idle never reported.
REVERSE	OK
EIE	OK
PCS	OK
HORN	OK
EOT MOVING	Never ON/ACTIVE
EOT MSG. JUST RX	Never ON/ACTIVE
EOT LIGHT	Never ON/ACTIVE
EP OPERATING MODE	Never ON/ACTIVE
EP PENALTY BRAKE	Never ON/ACTIVE
EP ENGINEER EMERGENCY	Never ON/ACTIVE



Quantum Desktop Playback
Data Scan Report

Report Date: 01-07-2012
Locomotive MMA 8569

Data Removed on 01-07-12

SPEED (MPH)	OK
TRACTION MOTOR CURRENT	OK
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EP PENALTY BRAKE	Never ON/ACTIVE
EP ENGINEER EMERGENCY	Never ON/ACTIVE