

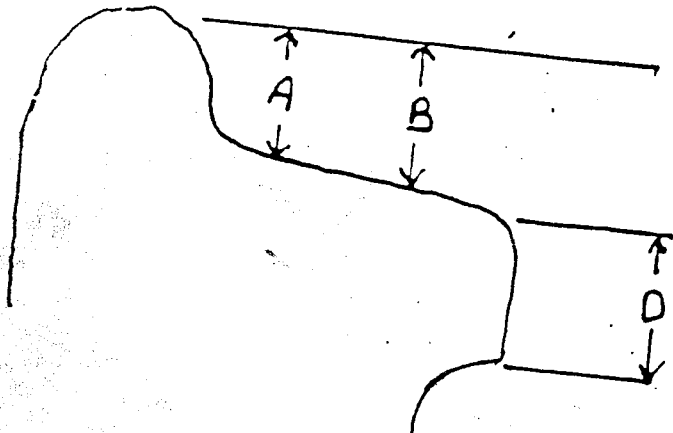
MONTREAL, MAINE AND ATLANTIC RAILWAY

Quarterly Mechanical Maintenance

Unit 23

Date 5-5-06

REPORT SHEET
WHEEL, COUPLER and SIDE BEARING



$C = B \text{ MINUS } A$

COUPLER HEIGHT (31.5" to 34.5")		MACHINIST <u>KE</u>
FRONT <u>33</u>	REAR <u>33</u>	
SIDE BEARING CLR. (total 3/16" - 1/2")		MACHINIST <u>KE</u>
R.F. <u>1/4"</u>	L.F. <u>1/4"</u>	
R.R. <u>1/8"</u>	L.R. <u>1/4"</u>	
PILOT HEIGHT (min. 3" - max. 6")		MACHINIST <u>KE</u>
FRONT 6"	REAR 4 1/2"	

WHEEL NO.	RIGHT SIDE Flange				LEFT SIDE Flange				NOSE SUSPENS. CLEARANCE
	A	B	F	D	A	B	F	D	
NO. 1	<u>1.08</u>	<u>1.08</u>	<u>OK</u>	<u>40</u>	<u>1.04</u>	<u>1.06</u>	<u>OK</u>	<u>43</u>	<u>1/2"</u>
NO. 2	<u>1.08</u>	<u>1.08</u>	<u>OK</u>	<u>43</u>	<u>1.08</u>	<u>1.06</u>	<u>OK</u>	<u>44</u>	<u>1/4"</u>
NO. 3	<u>1.10</u>	<u>1.10</u>	<u>OK</u>	<u>42</u>	<u>1.08</u>	<u>1.08</u>	<u>OK</u>	<u>42</u>	<u>1/2"</u>
NO. 4	<u>1.10</u>	<u>1.08</u>	<u>OK</u>	<u>38</u>	<u>1.10</u>	<u>1.10</u>	<u>OK</u>	<u>38</u>	<u>1/4"</u>

MACHINIST: A. Emery / CC

- Condemning limit at "C", Tread worn hollow 5/16" Road units.
- Condemning limit at "A", High flange "1-1/2" All units.
- Inspect all wheels for thin flanges (15/16" min.) OK - KE
- Inspect all wheels for flat and shell spots. OK - KE
- Inspect Front and rear draft gears and couplers. KE
- Inspect support brgs., caps, and gear cases for cracks. KE

REPORT ALL DEFECTS AND NEAR DEFECTS TO FOREMAN

FRACTIONAL MEASUREMENTS TO BE IN 32nds"
ONLY CORRECT MEASUREMENTS ARE USEFUL

Comments:

Locomotive
Quarterly Mechanical Maintenance

Unit 23

M M A R.R

Date 5-5-06

SIGNATURE

1. INSPECT ENGINE
 - a. Blowers, Lube oil Separator and stack studs for oil and water leaks. Tighten stack studs. KE
 - b. Gear train housing, pumps, governor and governor linkage for defect and leaks. KE
 - c. Crankcase, connecting rods, Bearings for cracks and leaks. KE
 - d. Air Boxes, Liners, Pistons and Piston Rings for cracks, oil and water leaks. ~~KE~~
 - e. Wipe out air boxes. KE
2. Change Michiana Filter Elements. JEW
3. Remove and Clean Lube Oil Suction Strainers. KE
4. Change or Clean Fuel Oil Filters. KE
 - a. Sintered Bronze. KE / CC
 - b. Fullflo Filter Elements. KE / CC
 - c. Suction Filter Elements. KE / CC
5. LUBRICATE THE FOLLOWING:
 - a. Traction Motor Gears. (4 pkg. Per gear case).... JH
 - b. Journal Boxes. JA
 - c. Speed Recorder Drive Chain. JA
 - d. Throttle Governor. JA
 - e. Shutter Linkage. KE
 - f. Bell Ringer. KE
 - g. Air Compressor Flexible Coupling KE
6. Inspect, Repair and Lube Hand Brake. JA
7. Inspect and Repair TM Gear Case. OK KE
8. CHECK COOLING WATER SYSTEM.
 - a. Inspect for leaks. JA
 - b. Water Inhibitor Concentration. KE
 - c. Water Gauges. KE
9. Drain Condensate from Fuel Tank Sump. KE
10. Drain Condensate from Lube Oil Sump. KE
11. Check Fuel Emergency Cutoff Valve Operation. KE
12. Check Fuel System for Leaks and Repair. KE
13. Check Traction Motor Air Duct Bellows. KE
14. Change Engine Air Filters. CC
15. Change Carbody Air Filters. KE / CC
16. Change High Voltage Cabinet Air Filters. KE / CC
17. Change or Clean Air Compressor Intake Air Filters. CC
18. Clean Screen in Air Comp. Discharge Oil Separator. CC
19. Clean Aftercooler Discharge Filter.
20. Clean Oil Cooler Breather.
21. CHECK OPERATION OF ALL GAUGES
 - a. Engine lube oil pressure. KE
 - b. Engine lube oil suction. KE
 - c. Water temperature. KE
 - d. Water pressure. KE
 - e. Air compressor lube oil pressure. KE
 - f. Main reservoir/air compressor governor. KE
 - g. Fuel gauges. JA
22. Perform Daily Inspection.
23. On 350s and 360s take compressor oil sample.

COMMENTS

Removed All Tar Paper over Carbody Filters - KE / CC

Bangor and Aroostook System
Locomotive
Quarterly Mechanical Maintenance

Unit 23

Date 5-6-06

3 Month Federal Air Work

=> 26-L Air Brake System <=

1. Inspect and repair air piping and valves for leaks.
2. Test all air gauges with Gauge tester and set if required.
3. With full brake pipe pressure, make a 20 lb. reduction, move the cutoff valve to "OUT" position and move the lead-dead valve to "dead" position. Brakes must remain applied for 5 minutes.
4. Cover each trainline hose coupling with hand and test for leakage thru valve, then apply blank dummy couplings to trainline hoses on each end of unit and open Trainline Valves. Make a 20 lb. reduction with the automatic, move the cutoff valve to "OUT" position and check Brake Pipe leakage. Leakage shall not exceed 5 lb. per minute.
5. Reduce main reservoir pressure to 85 lb. by draining #2 Main Reservoir (*) Check cab gauge for leakage from Main Reservoirs and piping for three minutes. Leakage must not exceed an average of 3 lbs. per minute during the test.
6. Drain #1 Main Reservoir (*), completely and test check valve between reservoirs. Pressure should remain on M. R. gauge in cab as #1 Main Reservoir is drained.

Signature

KE

KE

KE

KE

KE

KE

NOTE (*) Main Reservoir locations:
GP-38=> Res. L. Side: #2 Res R. Side.

COMMENTS:

Montreal, Maine, & Atlantic Railway
Mechanical Department

Unit Number. 23

Date 5-5-06

1. Inspect traction motor wicks and report action

- #1. OK ... KE/CC
- #2. OK ... KE/CC
- #3. OK ... KE/CC
- #4. OK ... KE/CC
- #5. ~~_____~~ ... _____
- #6. ~~_____~~ ... _____

**BANGOR & AROOSTOOK SYSTEM
LOCOMOTIVE
QUARTERLY ELECTRICAL MAINTENANCE**

UNIT 73 DATE 5 / 5 / 06

TYPE OF MILEAGE

TYPE OF UNIT

(M-1) (M-2) (LM) (M-12) (M-24) (M-36) (GP-7) (GP-9) (GP-35R) (GP-38) (GP-40)

		SIGNATURE
1.	INSPECT, CLEAN, AND CHECK BRUSHES	
	A. TRACTION MOTORS	
	1. NO. 1.....	<u>DF</u>
	2. NO. 2.....	<u>DF</u>
	3. NO. 3.....	<u>DF</u>
	4. NO. 4.....	<u>DF</u>
	B. MAIN GENERATOR.....	<u>NL</u>
	C. AUXILIARY GENERATOR.....	<u>NL</u>
	D. ALTERNATOR SLIP RINGS.....	<u>NL</u>
	E. FUEL PUMP MOTOR.....	<u>NL</u>
	F. DYNAMIC BRAKING MOTOR.....	<u>N/A</u>
	G. TURBO LUBE PUMP MOTOR.....	<u>N/A</u>
2.	CHECK MAIN ALTERNATOR	
	A. DIODES.....	<u>N/A</u>
	B. FUSES.....	<u>N/A</u>
3.	DRAIN WATER AND LUBE MOTOR SUPPORT BEARINGS	<u>NA</u>
4.	LUBE SPEED RECORDER. (UNITS 60-79).....	<u>N/A</u>
5.	INSPECT AND CLEAN CONTROLLER STAND.....	<u>DF</u>
6.	INSPECT AND CLEAN ALL EQUIPMENT IN ELECTRICAL CABINETS.....	<u>DF</u>
7.	CHECK WATER LEVEL AND GRAVITY OF BATTERIES....	<u>DF</u>
8.	WASH OUT BATTERY BOXES AND GREASE TERMINALS	<u>DF</u>
9.	INSPECT AND CLEAN COMMUTATOR AND SLIP RING ASSEMBLY OF THE LOAD REGULATOR.....	<u>NL</u>
10.	INSPECT, CLEAN, AND REPAIR ALL POWER CONTACTORS	<u>DF</u>
11.	INSPECT, CLEAN, AND REPAIR ALL REVERSER CONTACTORS.....	<u>DF</u>
12.	INSPECT, CLEAN, AND REPAIR ALL DYNAMIC BRAKING CONTACTORS.....	<u>NA</u>
13.	CHECK FOR LOOSE TERMINALS AND INSULATION DEFECTS IN CABINETS.....	<u>DF</u>
14.	CHECK ELECTRICAL SYSTEM FOR GROUNDS	
	A. HIGH VOLTAGE.....	<u>NL</u>
	B. LOW VOLTAGE.....	<u>NL</u>
	C. A/C VOLTAGE SYSTEM.....	<u>NL</u>

"What did I say"

SIGNATURE

- 15. CHECK ENGINE COOLING SYSTEM
 - A. COOLING FANS.....
 - B. SHUTTER OPERATION.....
- 16. CHECK RUNNING VOLTAGES
 - A. AUXILIARY GENERATOR VOLTAGE (72 VOLTS).....
 - B. 3 PHASE A/C VOLTAGE.....
- 17. CHECK OPERATION OF ALARM CIRCUITS AND SAFETY SWITCHES
 - A. LOW OIL PRESSURE.....
 - B. SUCTION ALARM.....
 - C. HIGH TEMPERATURE.....
 - D. CREW ALERT SYSTEM.....
 - E. TURBO LUBE PUMP TIMER.....
- 18. CHECK OPERATION OF WHEEL SLIP RELAYS.....
- 19. PERFORM A DAILY INSPECTION.....
- 20. DOWN LOAD EVENT RECORDER.....
- 21. CALIBRATE LOAD METER (+/-5%).....
- 22. GOVERNOR
 - A. CHANGE OIL.....
 - B. REMOVE PACK AND CLEAN ALL SOLENOIDS.....

~~NL~~
~~NL~~
 NL
 NL

 NL
 N/A
 N/A
 NA

 Don't have program
 NA

 NA
 NA

COMMENTS:

Engineer's side cab heater brushes short. Changed brushes - D.F.

Bangor and Aroostook Railroad

Brush Record

Unit 23

Date 5/5/06

MAIN GENERATOR

POS	1	2	3	4	5	B	W
1							
2							
3							
4							
5							
6							
7			OK				
8							
9							
10							
11							
12							

Signature N.L.

Aux. Generator

POS	1	2
2		
4	OK	
8		
10		

Signature N.L.

Fuel Pump

3	
9	OK

Signature N.L.

NO.1 TRACTION MOTOR

POS	1	2	3	B	W
3					
6					
9		OK			
12					

SIGNATURE DF

No. 2 Traction Motor

3					
6					
9		OK			
12					

Signature DF

No. 3 Traction Motor

3					
6					
9		OK			
12					

Signature DF

No. 4 Traction Motor

3					
6					
9		OK			
12					

Signature DF

DEFECT	CORRECTIVE ACTION TAKEN	SIGNATURE
Ground lead connector broken on T.M. #1.	Replaced connector.	D.F.
Over riding brake shoes L3-4	Repaired	SA/KE
Fireman's side battery box door hinge broken.		
Cooling Fan Shutter not working	Working ok.	NL.
Needs Rail Cool TABS	Added.	KE
Fireman's side Fuel Gauge NFG		
Changed Toilet	Refilled	JH
Rear Sender hose has hole	Replaced hose	JH
4" low Eng. lube oil	Added oil	KE

Inspector: _____ Time: _____

Time and Date Ok'd For Service: _____

The above work has been performed, except as noted, and the report is approved.

Foreman in Charge

Signature: _____ Occupation: _____

Unit No: 23

5/5/06