

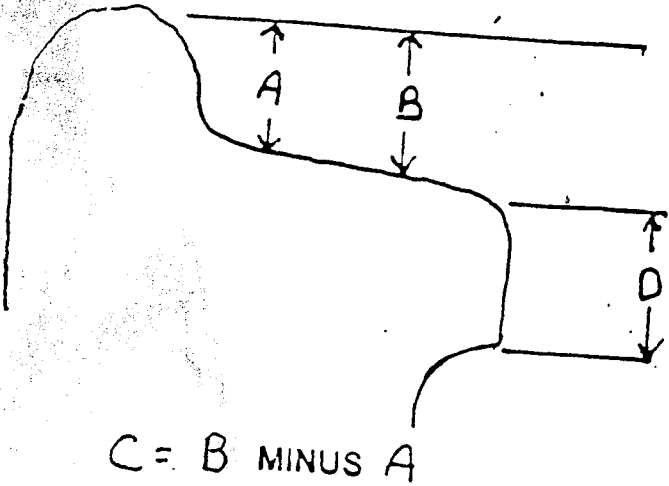
MONTREAL, MAINE AND ATLANTIC RAILWAY

Quarterly Mechanical Maintenance

Unit 100

Date 2/10/06

REPORT SHEET
WHEEL, COUPLER and SIDE BEARING



COUPLER HEIGHT (31.5" to 34.5") FRONT	REAR	MACHINIST
33	32 1/2	Jew
SIDE BEARING CLR. (total 3/16"-1/2")		MACHINIST
R. F. 1/16	L. F. 1/8	Jew
R. R. 1/8	L. R. 3/16	
PILOT HEIGHT (min. 3" - max. 6") FRONT	REAR	MACHINIST
5	5	Jew

WHEEL	RIGHT SIDE				LEFT SIDE				NOSE SUSPENS. CLEARANCE
	A	B	C	D	A	B	C	D	
NO. 1	1 3/16	1 3/16		2 1/16	1 3/16	1 3/16		2	1/8
NO. 2	1 3/16	1 3/16		1 1/16	1 2/16	1 2/16		1 6/16	3/16
NO. 3	1 2/16	1 2/16		1 1/16	1 3/16	1 3/16		1 12/16	1/8
NO. 4	1 4/16	1 4/16		1 3/16	1 6/16	1 6/16		1 2/16	1/16

MACHINIST: J Wilcox

- 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 Jew
- Inspect all wheels for flat and shell spots. OK Jew
- Inspect Front and rear draft gears and couplers. OK Jew
- Inspect support brgs., caps, and gear cases for cracks. OK Jew

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 100

M M A R.R.

Date 2/10/06

SIGNATURE

1. INSPECT ENGINE

- a. Blowers, Lube oil Separator and stack studs for oil and water leaks. Tighten stack studs.
- b. Gear train housing, pumps, governor and governor linkage for defect and leaks.
- c. Crankcase, connecting rods, Bearings for cracks and leaks.
- d. Air Boxes, Liners, Pistons and Piston Rings for cracks, oil and water leaks.
- e. Wipe out air boxes.

DZ Mr

DZ Mr

JH

J.H. / Hassel

1/8 Jim Martin / 9-16 K. Gerson

- 2. Change Michiana Filter Elements.
- 3. Remove and Clean Lube Oil Suction Strainers.
- 4. Change or Clean Fuel Oil Filters.

JH

JH

JH

JH

JH

5. LUBRICATE THE FOLLOWING:

- a. Traction Motor Gears. (4 pkg. Per gear case)
- b. Journal Boxes.
- c. Speed Recorder Drive Chain.
- d. Throttle Governor.
- e. Shutter Linkage.
- f. Bell Ringer.
- g. Air Compressor Flexible Coupling.

Jew

Jew

DZ Mr

DZ Mr

DZ Mr

DZ Mr

Hassel

Jew

- 6. Inspect, Repair and Lube Hand Brake.
- 7. Inspect and Repair TM Gear Case.

8. CHECK COOLING WATER SYSTEM.

- a. Inspect for leaks.
- b. Water Inhibitor Concentration.
- c. Water Gauges.

JH - Hussey

DZ Mr

DZ Mr

- 9. Drain Condensate from Fuel Tank Sump.
- 10. Drain Condensate from Lube Oil Sump.
- 11. Check Fuel Emergency Cutoff Valve Operation.
- 12. Check Fuel System for Leaks and Repair.
- 13. Check Traction Motor Air Duct Bellows.
- 14. Change Engine Air Filters.
- 15. Change Carbody Air Filters.
- 16. Change High Voltage Cabinet Air Filters.
- 17. Change or Clean Air Compressor Intake Air Filters.
- 18. Clean Screen in Air Comp. Discharge Oil Separator.
- 19. Clean Aftercooler Discharge Filter.
- 20. Clean Oil Cooler Breather.

Hussey

Jew

consider Engine side - Hassel

ok

Hussey

21. CHECK OPERATION OF ALL GAUGES

- a. Engine lube oil pressure.
- b. Engine lube oil suction.
- c. Water temperature.
- d. Water pressure.
- e. Air compressor lube oil pressure.
- f. Main reservoir/air compressor governor.
- g. Fuel gauges.

Fick - Hassel

- 22. Perform Daily Inspection.
- 23. On 350s and 360s take compressor oil sample.

COMMENTS

Engine out → Hassel

Bangor and Aroostook System
Locomotive
Quarterly Mechanical Maintenance

Unit 100

Date 2/10/06

3 Month Federal Air Work

=> 26-L Air Brake System <=

Signature

OZ Mr

Assey

OZ Mr

OZ Mrh

OZ Mr

OZ Mrz

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.

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

COMMENTS:

Put new o-ring on Horn valve
Assey
R-1 brake cyl leaking - J.E.W.

Montreal, Maine, & Atlantic Railway
Mechanical Department

Unit Number. 100

Date 2/10/06

1. Inspect traction motor wicks and report action

- #1. OK ... JW
 - #2. OK ... JW
 - #3. OK ... JW
 - #4. L wick had replaced, R OK... JW
 - #5. _____ ... _____
 - #6. _____ ... _____
- drain & refill boxes ... JW

BANGOR & AROOSTOOK SYSTEM
LOCOMOTIVE
QUARTERLY ELECTRICAL MAINTENANCE

UNIT 100 DATE 2 / 10 / 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>NL</u>
	2. NO. 2.....	<u>NL</u>
	3. NO. 3.....	<u>DF</u>
	4. NO. 4.....	<u>DF</u>
	B. MAIN GENERATOR.....	<u>DF</u>
	C. AUXILIARY GENERATOR.....	<u>M/DF</u>
	D. ALTERNATOR SLIP RINGS.....	<u>NL</u>
	E. FUEL PUMP MOTOR.....	<u>NA</u>
	F. DYNAMIC BRAKING MOTOR.....	<u>NA</u>
	G. TURBO LUBE PUMP MOTOR.....	
2.	CHECK MAIN ALTERNATOR	
	A. DIODES.....	<u>NA</u>
	B. FUSES.....	<u>NA</u>
3.	DRAIN WATER AND LUBE MOTOR SUPPORT BEARINGS	<u>NA</u>
4.	LUBE SPEED RECORDER. (UNITS 60-79).....	<u>NA</u>
5.	INSPECT AND CLEAN CONTROLLER STAND.....	<u>NA</u>
6.	INSPECT AND CLEAN ALL EQUIPMENT IN ELECTRICAL CABINETS.....	<u>M</u>
7.	CHECK WATER LEVEL AND GRAVITY OF BATTERIES.....	<u>M</u>
8.	WASH OUT BATTERY BOXES AND GREASE TERMINALS	<u>NL</u>
9.	INSPECT AND CLEAN COMMUTATOR AND SLIP RING ASSEMBLY OF THE LOAD REGULATOR.....	<u>NL</u>
10.	INSPECT, CLEAN, AND REPAIR ALL POWER CONTRACTORS	<u>NL</u>
11.	INSPECT, CLEAN, AND REPAIR ALL REVERSER CONTRACTORS.....	<u>M</u>
12.	INSPECT, CLEAN, AND REPAIR ALL DYNAMIC BRAKING CONTRACTORS.....	<u>M/A</u>
13.	CHECK FOR LOOSE TERMINALS AND INSULATION DEFECTS IN CABINETS.....	<u>M</u>
14.	CHECK ELECTRICAL SYSTEM FOR GROUNDS	
	A. HIGH VOLTAGE.....	<u>M</u>
	B. LOW VOLTAGE.....	<u>M</u>
	C. A/C VOLTAGE SYSTEM.....	<u>M</u>

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.....

COMMENTS: *Changed 4 light bulbs -*

NA
NA
NA

[Signature]

Bangor and Aroostook Railroad

Brush Record

Unit 100

Date 2/10/06

MAIN GENERATOR

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

Signature DF

Aux. Generator

POS	1	2
2		
4		
8	OK	OK
10	OK	OK

Signature DF

Fuel Pump

3	
9	OK

Signature N.L.

NO.1 TRACTION MOTOR

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

SIGNATURE MM

No. 2 Traction Motor

3					
6					
9	✓	✓	✓		
12					

Signature MM

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
Check for water leaks - through		Hartman
Containment tank was FROZEN (LOOSE PIPE)		Hansen/Hartman
HORN VALVE LEAKS BY =		HUSME
Spited valve - Hartman		
Main generator very oily and dirty. ^{Brushes sticking}	Cleaned, but will get oily again.	
Oil from engine compartment going through blower and into main generator.		
#1 R-Front BRACE piston legging	replaced	Jew
bad work in L-4		JH
Replaced 4 Brake-shoes	40 Brushes	N.L.
404 Cch hoctor brushes	Applied cover	N.L.
#2 T.M. Top cover missing	added flags + kit	JH
no flags - one flag kit		

Inspector: _____ Time: _____

Time and Date Ok'd For Service: _____

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

Signature: _____ Occupation: _____

Foreman in Charge

Unit No: 100 2/10/06