

MONTREAL, MAINE AND ATLANTIC RAILWAY

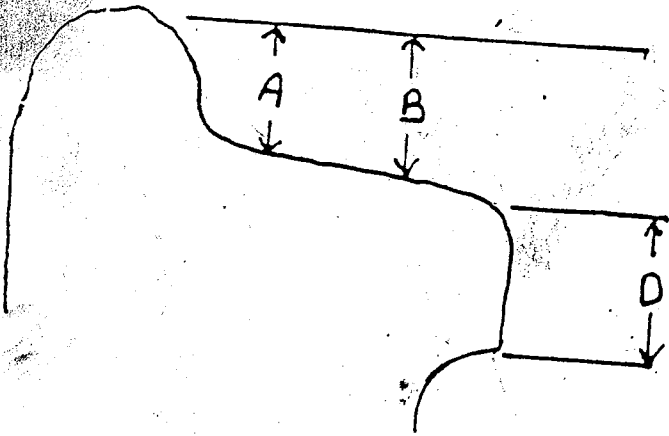
Quarterly Mechanical Maintenance

Unit

23

Date 8-6-06

REPORT SHEET
WHEEL, COUPLER and SIDE BEARING



C = B MINUS A

COUPLER HEIGHT (31.5" to 34.5")		MACHINIST
FRONT	REAR	
32 1/2	32	MACHINIST J C
SIDE BEARING CLR. (total 3/16" - 1/2")		
R. F. 1/16	L. F. 3/16	
R. R. 1/8	L. R. 1/16	
PILOT HEIGHT (min. 3" - max. 6")		MACHINIST
FRONT	REAR	
6*	4	W

WHEEL	RIGHT SIDE				LEFT SIDE				NOSE SUSPENS. CLEARANCE
	A	B	C	D	A	B	C	D	
NO. 1	1.06	1.08	2.14	2.14	1.06	1.08	2.14	2.14	1/4
NO. 2	1.08	1.09		2.21	1.07	1.08		2.20	3/16
NO. 3	1.09	1.09		2.21	1.08	1.09		2.22	3/8
NO. 4	1.12	1.10		2.08	1.10	1.11		2.10	1/2

MACHINIST:

- 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.) ✓
- Inspect all wheels for flat and shell spots. ✓
- Inspect Front and rear draft gears and couplers. ✓ R to F
- Inspect support brgs., caps, and gear cases for cracks. ✓

REPORT ALL DEFECTS AND NEAR DEFECTS TO FOREMAN

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

Comments:

- # 1-R bearing dust shield missing
 - # 1-R } over riding slips
 - # 2-RH } *REPAIR*
 - # 4 Tm loose gear case bolts *ok*
- JEW*

Locomotive
Quarterly Mechanical Maintenance

Unit 23

Date 8-6-06

M M A R R

1. INSPECT ENGINE

SIGNATURE

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

COMMENTS:

Bangor and Aroostook Railroad
Locomotive
Quarterly Mechanical Maintenance

Unit 23

Date 8/7/06

PERFORM A PISTON RING CHECK AND RECORD CONDITION

PISTON	RING 1	RING 2	RING 3	RING 4	PISTON	RING 1	RING 2	RING 3	RING 4
1	OK	OK	OK	OK	9	OK	OK	OK	OK
2	↓	↓	↓	↓	10	↓	↓	↓	↓
3	↓	↓	↓	↓	11	↓	↓	↓	↓
4	↓	↓	↓	↓	12	↓	↓	↓	↓
5	↓	↓	↓	↓	13	↓	↓	↓	↓
6	↓	↓	↓	↓	14	↓	↓	↓	↓
7	↓	↓	↓	↓	15	↓	↓	↓	↓
8	↓	↓	↓	↓	16	↓	↓	↓	↓

B - BROKEN S - SMOOTH OK

SIGNATURE Amin / Wilcox

2. Inspect and repair cab seats	<u>W. Bouché</u>
3. Inspect, repair and lube door hinges and latches.	<u>W. Bouché</u>
4. Inspect and repair cab weatherstripping	<u>W. Bouché</u>
5. Inspect and repair windows, slides, and latches	<u>W. Bouché</u>
6. Check for FRA stenciling	<u>W. Bouché</u>
9. Check for emergency brake decals and Hazmat book.	<u>W. Bouché</u>
10. Inspect and repair toilet.	<u>Empty Had previous leak</u>

Comments:

Montreal, Maine, & Atlantic Railway
Mechanical Department

Unit Number. 23

Date 8/7/06

1. Inspect traction motor wicks and report action

- #1. OK ... Ames
- #2. changed out wick (Replaced). Ames
- #3. OK ... few
- #4. OK ... few
- #5. _____ ... _____
- #6. _____ ... _____

Bangor and Aroostook System
Locomotive
Quarterly Mechanical Maintenance

Unit 23

Date 8/7/06

3 Month Federal Air Work

=> 26-L Air Brake System <=

Signature

Dave

Dave

Dave

Dave

Dave

Dave

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:

BANGOR & AROOSTOOK SYSTEM
LOCOMOTIVE
QUARTERLY ELECTRICAL MAINTENANCE

UNIT 23 DATE 8 / 7 / 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>FOSTER</u>
	2. NO. 2.....	<u>FOSTER</u>
	3. NO. 3.....	<u>FOSTER</u>
	4. NO. 4.....	<u>FOSTER</u>
	B. MAIN GENERATOR.....	<u>FOSTER</u>
	C. AUXILIARY GENERATOR.....	<u>FOSTER</u>
	D. ALTERNATOR SLIP RINGS.....	<u>FOSTER</u>
	E. FUEL PUMP MOTOR.....	<u>FOSTER</u>
	F. DYNAMIC BRAKING MOTOR.....	<u>NA</u>
	G. TURBO LUBE PUMP MOTOR.....	<u>NA</u>
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>NA</u>
7.	CHECK WATER LEVEL AND GRAVITY OF BATTERIES....	<u>NL</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>NA</u>
10.	INSPECT, CLEAN, AND REPAIR ALL POWER CONTRACTORS	<u>FOSTER</u>
11.	INSPECT, CLEAN, AND REPAIR ALL REVERSER CONTRACTORS.....	<u>FOSTER</u>
12.	INSPECT, CLEAN, AND REPAIR ALL DYNAMIC BRAKING CONTRACTORS.....	<u>NA</u>
13.	CHECK FOR LOOSE TERMINALS AND INSULATION DEFECTS IN CABINETS.....	<u>NA</u>
14.	CHECK ELECTRICAL SYSTEM FOR GROUNDS	
	A. HIGH VOLTAGE.....	<u>NA</u>
	B. LOW VOLTAGE.....	<u>NA</u>
	C. A/C VOLTAGE SYSTEM.....	<u>NA</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.....

NA
NA
NA

a/a

COMMENTS:

Bangor and Aroostook Railroad

Brush Record

Unit 23

Date 8/7/06

MAIN GENERATOR

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

Signature FOSTER

Aux. Generator

POS	1	2
2		
4		
8	OK	
10		

Signature FOSTER

Fuel Pump

3	
9	OK

Signature FOSTER

NO.1 TRACTION MOTOR

POS	1	2	3	B	W
3					
6			OK		
9					
12					

SIGNATURE FOSTER

No. 2 Traction Motor

3					
6					
9			OK		
12					

Signature FOSTER

No. 3 Traction Motor

3					
6					
9			OK		
12					

Signature FOSTER

No. 4 Traction Motor

3					
6					
9			OK		
12					

Signature FOSTER

Locomotive Winterization Check off sheet.

Locomotive No. 23

Date 8/7/06

Item	Done (X)	Not Done (X)	Notes
Heated Glazing	_____	_____	_____
Check air Defroster	_____	_____	_____
Hot water heat	<u>NA</u>	_____	_____
Electric Heat	_____	_____	_____
Remove air intake	_____	_____	_____
Seal vents	_____	_____	_____
Side wall heaters	_____	_____	_____
Blow out heaters	_____	_____	_____
Front door (weatherstrip)	<u>X</u>	_____	_____
Rear door (weatherstrip)	_____	<u>X</u>	<u>OLD STYLE</u>
Left window (Seal)	<u>X</u> <u>OK</u>	_____	_____
Right window (Seal)	<u>X</u> <u>OK</u>	_____	_____
Nose door (Seal)	_____	<u>X</u>	<u>OLD STYLE</u>
Electrical Cabinet (Seal)	<u>X</u>	_____	_____
Ceiling (Insulate)	<u>X</u>	_____	_____
Auto brake (vent)	<u>X</u>	_____	_____
Independent (vent)	<u>X</u>	_____	_____
Floor hatch (Seal)	<u>X</u>	_____	_____
^{stand} Control valve (Seal)	<u>X</u>	_____	_____



DEFECT	CORRECTIVE ACTION TAKEN	SIGNATURE
Eng + Comp. Room very oily	cleaned	Jew
Access. Rack mounting Bolts loose	- Tightened	W. G. ...
# 13 & 14 Test cocks leaking by packing	Replaced packing	W. G. ...
Oil getting into T.M.#4 through air duct.		
BOTH FIRE EXT. EXPIRED	REPLACED	W. G. ...
BOTH F.E BRACKETS BROKEN	REPAIRED	W. G. ...
ES MIRROR BUSTED BAD!!!	REPLACED	W. G. ...
E.S. INSIDE ARM REST MISSING	OK	Dave
FS FRONT WIPER MISSING	REPLACED	W. G. ...
MISSING 2 RED FLAGS	REPLACED 2 RED FLAGS	W. G. ...
3 OF THE 4 SUN VISORS IN CAB WERE LOOSE	- TIGHTEND	W. G. ...
Fireman's side battery box door hinge broken.	Welded hinge points	Dave
# 1 Stack # 3 Stack cracked	Welded cracks	Dave
S13 contacts getting rough, "keep an eye on them"	Applied one white contact tip	W. G. ...
# 2 T.M. Has no chip on	JOURNAL BOXES	
Draned Cont. Tank 1/2 Full	Draned	W. G. ...
Painted Face of steps "white"	Repaired	W. G. ...
LF & LR Bottom steps loose bolts	Tightened/replaced bolts	Dave

Inspector: _____ Time: _____

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

Signature: _____ Occupation: _____

Time and Date Ok'd For Service: _____

Foreman in Charge

Unit No: 23 8/7/06

Inspection: