Bangor and Aroostook Railroad
Locomotive
Quarterly Mechanical Maintenance
Leads

Unit 23 Date 2-13-05

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

COMMENTS:

Montreal, Maine & Atlantic Railway
LOCOMOTIVE & CAR WHEEL REPORT

Loco or Car Initial & Number MMA 23

Date of Inspection 2-13-05

Location of Inspection Derby

Inspector's Name John Wilcox

(Check One)

Inbound Inspection		Outbound Inspection	
	✓		

Left Side / Right Side

Flange Thickness	Rim Thickness	Flange Height	Location	Flange Thickness	Rim Thickness	Flange Height	Motor Type	NOSE Clearance
1 3/8	1 1/2	1 5/16	1	1 1/8	1 3/8	1 3/8		1/4
1 1/4	1 1/2	1 1/4	2	1 3/8	1 3/8	1 1/4		3/8
1 1/4	1 1/8	1 31/64	3	1 9/16	1 1/8	1 31/64		3/8
1 3/8	2 7/16	1 3/16	4	1 1/4	2 3/8	1 1/4		1/16
			5					
			6					

Cut Flanges LXR #3

Coupler Height (minimum 31.5" maximum 34.5")

Front	32	Rear	32 1/2

Pilot Height (minimum 3" maximum 6")

Front	5	Rear	5 3/4

Side Bearing Clearance (total to be between 3/16" & 1/2")

Left Front	1/8	Right Front	1/4	Left Rear	1/16	Right Rear	1/4

List any defects such wheel shelf spots, flat spots, spalling or vertical flanges

Draft

F	R
1/4	1/4

Unit #23

2/13/05

Main Alternator

Pos	Brush				
3	X	X	X	X	X
2					
1					
[illegible]					
11		X	X		
10	X	X	X	X	X
4	X	X	X	X	X
5		X			
6	X	X	X	X	X
7	X	X	X	X	X
8	X	X	X	X	X
9	X	X	X	X	X

#1 TM

Pos	1	2	3
3			
6		OK	
9			
12			

#2 TM

Pos	1	2	3
3			
6		OK	
9			
12			

#3 TM

Pos	1	2	3
3	X	X	X
6	X	X	
9			X
12	X	X	

#4 TM

Pos	1	2	3
3			
6			
9			
12			

Fuel Pump

3		
9		

Aux Gen

Pos	1	2	3
2			
4			N/A
8			N/A
10			

~~#5 TM~~

Pos	1	2	3
3			
6			
9			
12			

~~#6 TM~~

	1	2	3
3			
6			
9			
12			

~~Exciter Gen~~

Pos	1	2	3
2			
4			
8			
10			

MONTREAL, MAINE AND ATLANTIC RAILWAY DEFECT SHEET

[redacted]
Bangor, Maine 04401

Unit #23 2/13/05

DEFECT	CORRECTIVE ACTION TAKEN	SIGNATURE
High Flange #3		
Broken Ground #2 TM	Repair	TK
7 bad shoes	Replaced	lew
broken pedestal liner L.3	replaced	lew
Three brush holders missing bolts (small) in main generator.	Replaced bolts.	D.F.
All four brush holders need to be adjusted in the auxiliary generator, inside brushes riding off comm.	adjusted to center	
	Drained containment Tank	DZ Mtn.
Bad step light conductors F side		

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: _____

CONFIDENTIAL

MMA-0009790

Bangor And Aroostook Railroad
Northern Maine Junction Park
RR 2 [redacted]
Bangor, Maine 04401

DEFECT SHEET

FORM

DEFECT	CORRECTIVE ACTION TAKEN	SIGNATURE
excessive oil/grease TM 3'	Cleaned best as possible (Brushes move)	[signature]

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: [redacted]

Inspection:

CONFIDENTIAL

MMA-0009791

Bangor and Aroostook System
Locomotive
Quarterly Mechanical Maintenance

Unit MMA 23 Date 2-14-05

3 Month Federal Air Work

=> 26-L Air Brake System <=

		Signature
1.	Inspect and repair air piping and valves for leaks.	DZ McLaughlin
2.	Test all air gauges with Gauge tester and set if required.	DRS
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.	DZ McL
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.	DZ McL
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.	DZ McL
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.	DZ McL

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

COMMENTS:

removed drain plugs bottom of both M. R. tanks - alot of condensation water + oil in #1 — DZ McL