

Montreal, Maine & Atlantic Railway
Locomotive

Unit 8583

Date 10-30-12

3 Month Period: Air Work

1. Inspect and repair air piping and valves for brake pipe and trainline..... Owe
 2. Test all air gauges with gauge tester and set if required..... Owe
 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..... P. G. P.
 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..... P. G. P.
 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..... P. G. P.
 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..... P. G. P.
 7. Check all MIV valve handles to ensure the holding devices work properly. Lubricate or replace as necessary..... P. G. P.
 8. Check mainline through valves and test if open the line. Lubricate or replace as necessary..... P. G. P.
- Note: (*) reservoir without the check valve #2 or with the check valve
- 9 test AND CALABRO + AIR Flow Meter P. G. P.

LOCOMOTIVE

8533

DATE

10/30/12

Start Readings				Has Shims		END READING				Has Shims		OLD GAUGE
Flange Height	Flange Thickness	Rim Thickness	Witness Grove	YES	NO	Flange Height	Flange Thickness	Rim Thickness	Witness Grove	YES	NO	FLANGE THICKNESS MEASUREMENT
L#1	0.18	00	42			L#1						0-on 0-1-17/64 1-on 0-1-15/64 2-on 0-1-13/32 3-on 0-1-5/32 4-on 0-1-7/64 5-on 0-1-3/64 6-on 0-1-1/32"
L#2	0.18	00	44			L#2						7-on 0-1-1/16"
L#3	0.18	00	39			L#3						8-on 0-1-15/64"
L#4	0.18	00	44			L#4						
L#5						L#5						
L#6						L#6						
												OLD GAUGE
R#1	0.17	00	44			R#1						FLANGE HEIGHT MEASUREMENT
R#2	0.18	00	42			R#2						0-on 0-1"
R#3	0.17	00	41			R#3						0-on 1-1-1/8"
R#4	0.18	00	48			R#4						0-on 2-1-1/8"
R#5						R#5						0-on 3-1-3/16"
R#6						R#6						0-on 4-1-1/4"
												0-on 5-1-5/16"
												2-on 6-1-13/32"
												4-on 8-1-7/16"
												6-on 8-1-31/64"

WEAR LIMITS FOR ROAD & SWITCH LOCOMOTIVES - MINIMUM DAILY REQUIREMENTS

RA 1 1/2" MMA 1 7/16" Flange Height
 RA 7/8" MMA 15/16" Flange Thickness
 RA 1" MMA 1 1/16" Rim Thickness
 RA 5/16" MMA 1/4" Tread Wear

FLANGE HEIGHT MEASUREMENT

NEW GAUGE

0-on 17-1-7/8"
 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"

WEAR LIMITS - ROAD & SWITCH LOCOS - MIN. 92 DAY REQ

WEAR LIMITS - PASSENGER LOCOS - MIN 92 DAY REQ

LANGE	Flange THICKNESS	Rim THICKNESS	Tread WEAR	Flange HEIGHT	Flange THICKNESS	Rim THICKNESS	Tread WEAR
RA 1 1/2"	FRA 7/8"	FRA 1"	FRA 5/16"	FRA 1 1/2"	FRA 7/8"	FRA 1"	FRA 5/16"
MA 1 7/16"	MMA 1 1/32"	MMA 1 1/8"	MMA 1/4"	MMA 1 7/16"	MMA 1"	MMA 1 1/2"	MMA 1/4"

CONVERSION CHART FOR WHEEL DIAMETER

= 37"	15= 37 7/8"	22= 38 1/4"	29= 39 5/8"	36= 40 1/2"
= 37 1/8"	16= 38"	23= 38 7/8"	30= 39 3/4"	37= 40 5/8"
0= 37 1/4"	17= 38 1/8"	24= 39"	31= 39 7/8"	38= 40 3/4"
1= 37 3/8"	18= 38 1/4"	25= 39 1/8"	32= 40"	39= 40 7/8"
2= 37 1/2"	19= 38 3/8"	26= 39 1/4"	33= 40 1/8"	40= 41"
3= 37 5/8"	20= 38 1/2"	27= 39 3/8"	34= 40 1/4"	41= 41 1/8"
4= 37 3/4"	21= 38 5/8"	28= 39 1/2"	35= 40 3/8"	42= 41 1/4"

FLANGE THICKNESS MEASUREMENT

NEW GAUGE

0-on 0-1-17/64"
 1-on 0-1-15/64"
 2-on 0-1-13/32"
 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 0-1-1/16"
 8-on 0-1-1/8"

LOCOMOTIVE RAIL CLEARANCE

COUPLER HEIGHT	FRONT	PILOT HEIGHT	FRONT	HEIGHT OF HORIZONTAL END HANDHOLD OR UNCOUPLING LEVER IF USED AS HORIZONTAL HANDHOLD	LOCO RAIL CLEARANCE
RA	MAX 34 1/2" MIN 31 1/2"	33 1/2"	FRA MAX 6" MIN 3"	5"	FRA MIN 2 1/2"
MA	MAX 34 1/2" MIN 32 1/2"	33 1/2"	MMA MAX 6" MIN 3 1/2"	5"	MMA MIN 3"

WHEEL DIAMETER MEASUREMENTS ARE TAKEN FROM THE TOP OF THE WITNESS GROOVE. 40" DIAMETER WHEELS WITNESS GROOVE = 36"

2" DIAMETER WHEEL WITNESS GROOVE = 38"

WHEEL MATCHING STANDARDS FOR 6 AXLE LOCOMOTIVES (FRA & MMA STANDARDS ARE THE SAME)

1/8" IS THE MAXIMUM VARIATION ALLOWED, IN WHEEL DIAMETER, BETWEEN ANY 2 WHEELS IN THE SAME TRUCK WITHOUT SHIMS.
 1/4" IS THE MAXIMUM VARIATION ALLOWED, IN WHEEL DIAMETER, BETWEEN ANY 2 WHEELS IN THE SAME TRUCK WITH SHIMS APPLIED.
 1/2" IS THE MAXIMUM VARIATION ALLOWED, IN WHEEL DIAMETER, BETWEEN ANY 2 WHEELS ON DIFFERENT TRUCKS.

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
 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 TREAD. NOTE: ON EMD LOCOMOTIVES USE ONLY ONE (1) SHIM EMD PART NUMBER 8455981 SHELLED TREAD AND FLAT SPOTS MUST BE TREAD OR CHANGED WHEN FOUND ON PERIODIC OR UNSCHEDULED MAINTENANCE. KCS CONDEMNING LIMITS FOR SHELLED TREAD ON A SERVICE TRAIL. *MIN. SHELLED SPOT 1" OR GREATER IN LENGTH *ONE SHELLED SPOT WITH A DEPTH OF 1/4" OR MORE

EMPLOYEES SIGNATURE

C. Ferguson

SUPERVISORS SIGNATURE

Bangor and Aroostook Railroad

Brush Record

Unit 8583

Date 10/30/12

MAIN GENERATOR

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

Signature JS

Aux. Generator

POS	1	2
2		
4		
8		
10		

Signature JS

~~Fuel Pump~~
Cab Heater

3	
9	

Signature JS

NO. 1 TRACTION MOTOR

POS	1	2	3	B	W
3					
6					
9					
12					

SIGNATURE JS

No. 2 Traction Motor

3					
6					
9					
12					

Signature JS

No. 3 Traction Motor

3					
6					
9					
12					

Signature JS

No. 4 Traction Motor

3					
6					
9					
12					

Signature JS

Report Date: 10-30-2012
Locomotive 8583

Data Removed on 10-30-12

SPEED (MPH)	OK
TRACTION MOTOR CURRENT	OK
BRAKE PIPE PRESSURE	OK
INDEPENDENT BRAKE	OK
END-OF-TRAIN PSI	Never above 20.
THROTTLE	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

Manufacturer is QEI Version # S450
Serial Number is 0097100717
Customer is NS

Data was removed on - 08:40:20 on 10/30/12
Last Downloaded on - 08:31:00 on 07/26/12
Battery was installed on - 01/18/00
Locomotive Number is - 8583

Downloaded by - SUDS
Location - Guilford
Train - 1234
Wheel Size Entry - 40
Wheel Size used by program:
Circumference = 125.7 Diameter = 40.0
No memo present.

Wheel size used for printout is 125.66

QDP Version V