

# Description of Work Performed

Locomotive ID 5018 Time Started \_\_\_\_\_ Time Finished \_\_\_\_\_

Took old fridge & put  
new one IN DAVE S.







# Quantum Desktop Playback

Manufacturer is QEI Version # S45E  
Serial Number is 0204090074  
Customer is MMR

Data was removed on - 10:36:30 on 07/21/10  
Last Downloaded on - 20:19:00 on 07/07/10  
Battery was installed on - 08/10/04  
Locomotive Number is - 5018

Downloaded by - LeBlanc  
Location - Derby,Me  
Train - 1  
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



Quantum Desktop Playback  
Data Scan Report

Report Date: 07-21-2010  
Locomotive 5018

Data Removed on 07-21-10

SPEED (MPH)	OK
TRACTION MOTOR CURRENT	OK
BRAKE PIPE PRESSURE	OK
INDEPENDENT BRAKE	OK
END-OF-TRAIN PSI	Never above 20.
EP BRAKE REQUESTED	Never ON/ACTIVE
THROTTLE	Low Idle never reported.
REVERSE	OK
EIE	OK
PCS	Never ON/ACTIVE
HORN	Never ON/ACTIVE
EOT MOVING	Never ON/ACTIVE
EOT MSG. JUST RX	Never ON/ACTIVE
EOT LIGHT	Never ON/ACTIVE
EP OPERATING MODE	Never ON/ACTIVE
EP PENALTY BRAKE	Never ON/ACTIVE
EP ENGINEER EMERGENCY	Never ON/ACTIVE

# MONTREAL, MAINE & ATLANTIC RAILWAY

## Universal Locomotive Inspection and Maintenance Report

1. Location <i>Derby Maine</i>	2. Date and Time <i>7-21-11</i>	Last Federal Date <i>7-21-11</i>	4. Unit Initial and Number <i>5017</i>
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Inspection Items	OK	DEF	N/A
05. Engine Lube Oil Level	X		
06. Governor Oil Level	X		
07. Air Compressor Oil Level	X		
08. Cooling System Level & Color	X		
Work Completed By: <i>K. Hany</i>			
09. Water, Oil Exhaust, or Fuel Leaks	X		
10. Steps, Walkways, Doors & Hinges	X		
11. Handbrake	X		
12. Fire Extinguisher Less Than 1 Year Old	X		
13. Guards, Protective Covers & Stencils	X		
14. Horn, Bell and Wiper Operation	X		
15. Speed Indicator & Seal	X		
Work Completed By: <i>K. Hany</i>			
16. Clean & Service Toilet & Restroom			
Work Completed By: <i>Jeff Black</i>			
17. Clean Cab & Remove Trash & Graffiti			
Work Completed By: <i>Jeff Black</i>			
18. Sandbox Level Within 10" of Full	X		
Work Completed By: <i>K. Hany</i>			

Inspection Items	OK	DEF	N/A
19. Trucks, Underframe & Side Bearings	X		
20. Wheels, Traction Motors & Air Ducts	X		
21. Sanders, Alignment, Nozzles, Hoses & Operation	X		
22. Main Reservoir & All Air Blowdown Drains	X		
23. Inspect MU Cut - Out Cocks, MU Cradle Holders	X		
24. Retention Tank Less Than Half Full	<i>none</i>		
25. Inspect Flange Lubricators	X		
Work Completed By: <i>Jeff Black</i>			
26. Brake Shoes & Rigging	X		
Work Completed By: <i>Jeff Black</i>			
27. Fuel Cap, Gauge & Vent Line	X		
28. Fuel Quantity (Gallons)	X		
Work Completed By: <i>K. Hany</i>			
29. Check Operation of Heater/Air Conditioner	X		
30. All Exterior & Interior Lights	X		
Work Completed By: <i>Stew Back</i>			
31. Check Reverser Handle Interlock	X		
32. Indicators, Annunciators & DID Panel	X		
33. Radio Transmits & Receives Clearly	X		
34. Record FOT Calibration Date:	X		
Work Completed By: <i>K. Hany</i>			

*COAST SPARK ARRESTOR AND STACKS OK*

*SPRINKLER SHOTS WORKS + PINS OK*

### Defects Found During Inspections

Item #	Description of Defect	Description of Repair	Repaired By
<i>12</i>	<i>OUT DATED</i>	<i>replaced</i>	<i>K. Hany</i>
<i>16</i>	<i>BROKEN HANDLE</i>	<i>replaced</i>	<i>Jeff Black</i>
<i>27</i>	<i>MISSING ONE SCAL fuel unit</i>	<i>1625 GALS</i>	<i>Jeff Black</i>
			<i>K. Hany</i>

I certify that all required inspection items have been completed and all noted defects have been repaired or deemed serviceable by my authority.

Signature: *K. Hany* / *Jeff Black*

# MONTREAL, MAINE & ATLANTIC RAILWAY

Unit #	
Date:	

## Lube Maintenance

For items 34 – 37, mark with a "Check Mark" if everything is okay and with an "X" if defects are found. If AC Traction Motors, record the number of quarts added in the blocks for Task # 35 below. Record all defects and repairs on the defect portion on the front page of this form.

Inspect & Lubricate All Traction Motors	TM1	TM2	TM3	TM4	TM5	TM6
35. Condition of Gear Case Gears						
36. Lube Gear Cases, Supports & Journals						
37. Top and Bottom Fill Caps						
38. Motor Support, Gear Case & Wick Bolts						

39. Engine and Air Compressor Oil Samples
40. Engine Cooling Water Sample

**Samples Taken By:** \_\_\_\_\_

**Lube Completed By:** \_\_\_\_\_

I certify that all required inspection items have been completed and all noted defects have been repaired or deemed serviceable by my authority.

Supervisor: \_\_\_\_\_

LOCOMOTIVE										DATE				
5017										7-21-11				
Start Readings					Has Shims		END READING					Has Shims		OLD GAUGE
	Flange Height	Flange Thickness	Rim Thickness	Witness Groove	YES	NO		Flange Height	Flange Thickness	Rim Thickness	Witness Groove	YES	NO	FLANGE THICKNESS MEASUREMENT
L#1	0-18	0-0	45				L#1							0-on 0-1-17/64"
L#2	0-18	0-0	38				L#2							1-on 0-1-15/64"
L#3	0-18	0-0	48				L#3							2-on 0-1-7/32"
L#4	0-18	0-0	48				L#4							3-on 0-1-5/32"
L#5	0-21	0-0	42				L#5							4-on 0-1-7/64"
L#6	0-18	0-0	42				L#6							5-on 0-1-3/64"
														6-on 0-1-1/32"
														7-on 0-63/64"
														8-on 0-15/16"
R#1	0-17	0-0	45				R#1							0-on 0-1-17/64"
R#2	0-19	0-0	38				R#2							0-on 1-1-1/16"
R#3	0-18	0-0	48				R#3							0-on 2-1-1/8"
R#4	0-18	0-0	48				R#4							0-on 3-1-3/16"
R#5	0-19	0-0	42				R#5							0-on 4-1-1/4"
R#6	0-18	0-0	42				R#6							0-on 5-1-5/16"
														0-on 6-1-3/8"
														2-on 6-1-13/32"
														4-on 6-1-7/16"
														6-on 6-1-3/64"

WEAR LIMITS FOR ROAD & SWITCH LOCOMOTIVES - MINIMUM DAILY REQUIREMENTS

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

FLANGE HEIGHT MEASUREMENT:  
 0-on 0-1-17/64"  
 0-on 1-1-1/16"  
 0-on 2-1-1/8"  
 0-on 3-1-3/16"  
 0-on 4-1-1/4"  
 0-on 5-1-5/16"  
 0-on 6-1-3/8"

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

WEAR LIMITS - PASSENGER LOCOS - MIN 92 DAY REQ

FLANGE Height	Flange THICKNESS	Rim THICKNESS	Tread WEAR	Flange HEIGHT	Flange THICKNESS	Rim THICKNESS	Tread WEAR
FRA 1 1/2"	FRA 7/8"	FRA 1"	FRA 5/16"	FRA 1 1/2"	FRA 7/8"	FRA 1"	FRA 5/16"
MMA 1 7/16"	MMA 1 1/32"	MMA 1 1/8"	MMA 1/4"	MMA 1 7/16"	MMA 1"	MMA 1 1/4"	MMA 1/4"

CONVERSION CHART FOR WHEEL DIAMETER

8=	37"	15=	37 7/8"	22=	38 3/4"	29=	39 5/8"	36=	40 1/2"
9=	37 1/8"	16=	38"	23=	38 7/8"	30=	39 3/4"	37=	40 5/8"
10=	37 1/4"	17=	38 1/8"	24=	39"	31=	39 7/8"	38=	40 3/4"
11=	37 3/8"	18=	38 1/4"	25=	39 1/8"	32=	40"	39=	40 7/8"
12=	37 1/2"	19=	38 3/8"	26=	39 1/4"	33=	40 1/8"	40=	41"
13=	37 5/8"	20=	38 1/2"	27=	39 3/8"	34=	40 1/2"	41=	41 1/8"
14=	37 3/4"	21=	38 5/8"	28=	39 1/2"	35=	40 3/8"	42=	41 1/4"

NEW GAUGE

FLANGE THICKNESS MEASUREMENT:  
 0-on 0-1-17/64"  
 1-on 0-1-15/64"  
 2-on 0-1-7/32"  
 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 0-63/64"  
 8-on 0-15/16"

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
FRA	MAX 34 1/2" MIN 31 1/2"	FRA	MAX 6" MIN 3"	FRA MIN 30" MMA MIN 30" FRA MAX 50" MMA MAX 50"	FRA MIN 2 1/2" MMA MIN 3"
MMA	MAX 34 1/2" MIN 32 1/2"	REAR	MAX 6" MIN 3 1/2"		

WHEEL DIAMETER MEASUREMENTS ARE TAKEN FROM THE TOP OF THE WITNESS GROOVE. 40" DIAMETER WHEELS WITNESS GROOVE = 36"  
 42" DIAMETER WHEEL WITNESS GROOVE = 38"

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

- 3/4" IS THE MAXIMUM VARIATION ALLOWED, IN WHEEL DIAMETER, BETWEEN ANY 2 WHEELS IN THE SAME TRUCK WITHOUT SHIMS.
- 1 1/4" IS THE MAXIMUM VARIATION ALLOWED, IN WHEEL DIAMETER, BETWEEN ANY 2 WHEELS IN THE SAME TRUCK WITH SHIMS APPLIED.
- 1 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

0 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 TRUED

NOTE: ON EMD LOCOMOTIVES USE ONLY ONE 1/2" SHIM EMD PART NUMBER 8455981 SHELLED TREAD AND FLAT SPOTS MUST BE TRUED OR CHANGED WHEN FOUND ON PERIODIC OR UNSCHEDULED MAINTENANCE. KCS' CONDEMNING LIMITS FOR SHELLED TREAD ON A SERVICE TRACK:

- ONE SHELLED SPOT 1" OR GREATER IN LENGTH
- ONE SHELLED SPOT WITH A DEPTH OF 1/4" OR MORE

EMPLOYEES SIGNATURE

*[Signature]*

SUPERVISORS SIGNATURE

*[Signature]*