

MM&A 92 DAY INSPECTION SHEET

LOCATION: *Deerby* DATE: *5-30-09* LOCOMOTIVE NO. *5024*

No.	INSPECT-CHECK	INSPECTOR'S SIGNATURE
	PERFORM ALL 100 SERIES INSPECTIONS AND TESTS WITH LOCOMOTIVE OUTSIDE OF SHOP BUILDING	
100	PERFORM SELF TEST ON ALERTER-EVENT RECORDER. DOWN LOAD EVENT RECORDER. INSURE THAT ALL DATA PARAMETERS ARE BEING RECORDED, VERIFY PROPER TIME AND DATE ON RECORDER.	<i>D</i> Downloaded Printed Filed
101	SELF LOAD UNIT OUTSIDE. RECORD KW, AMPS AND VOLTS	<i>D</i> meter <i>6.78</i> H.P. <i>2872.17</i>
102	MANUALLY PULL EACH FUEL PUMP RACK SLIGHTLY AND LISTEN FOR A SHARP WRAP, WHICH INDICATES THAT THE NOZZLE AND CYLINDER ARE MOST LIKELY OPERATING PROPERLY.	<i>D Muck</i>
103	CHECK "DID" ON THE BRIGHTSTAR SCREEN. IF FAULT IS DISPLAYED, RECORD ON DEFECT SHEET AND INVESTIGATE THE CAUSE. RUN LOCOMOTIVE SELF TEST IF NEEDED.	<i>[Signature]</i>
104	LISTEN TO DIESEL ENGINE IN IDLE FOR ANY UNUSUAL SOUNDS. MAKE VISUAL INSPECTION WITH ALL DOORS OPEN. LOOK FOR WATER, LUBRICATION AND FUEL LEAKS AND MAKE CORRECTIONS AS NECESSARY.	<i>D Muck</i>
105	CHECK ENGINE OIL LEVEL AT IDLE. ADD OIL TO FULL MARK AS NECESSARY. TAKE OIL SAMPLE AFTER RUNNING ENGINE FOR A MINIMUM OF FIVE (5) MINUTES.	<i>D Muck</i>
106	CHECK AIR COMPRESSOR OIL LEVEL WITH ENGINE AT IDLE. ADD OIL AS REQUIRED (GE SPECIFICATION D6B11D3)	<i>D Muck</i>
107	CHECK OIL LEVEL IN ALTERNATOR GEAR TRAIN. ADD DIESEL ENGINE OIL AS NEEDED.	<i>D Muck</i>
108	CHECK OPERATION OF WINDOW WIPERS. REPLACE BLADES AS NECESSARY.	<i>D Muck</i>
109	CHECK COOLING WATER LEVEL AND WATER TREATMENT CONCENTRATION. ADD TREATED OR CLEAN WATER AND COMPATIBLE WATER TREATMENT COMPOUND AS NEEDED.	<i>D Muck</i>
110	CHECK OPERATION OF GROUND RELAY SYSTEM AND LOCK OUT PER GETS MI GEI-83418A.	<i>D</i>
111	CHECK EXHAUST MANIFOLD FOR LEAKS, CRACKS OR BROKEN WELDS. REPAIR AS NECESSARY.	<i>D Muck</i>
112	CHECK OPERATION OF ENGINE AIR FILTER PRESSURE SWITCH PER GETS MI GEK-18104.	
	DUMP & CLEAN TOILET.	<i>D Muck</i>

113	CHECK OPERATION OF EMERGENCY FUEL TRIPS AND THROTTLE STOPS	<i>P. M. M.</i>
114	CHECK GOVERNOR OVER SPEED SYSTEM TO ENSURE PROPER OPERATION. CHECK GOVERNOR OIL LEVEL AT IDLE. ADD 10W30 OIL GRADE SF AS REQUIRED	<i>D</i>
115	TEST FLUID AMPLIFIER FOR LEAKAGE PER MI GE K-35899.	<i>W. M. M.</i>
116	INSPECT AND TEST ALL ALARMS, AUTOMATIC CONTROLS AND PROTECTIVE DEVICES	<i>D</i>
117	RUN MANUAL SELF TEST USING DID PANEL.	<i>W. M. M.</i>
118	CHECK AND VERIFY OPERATION OF SPEEDOMETER	<i>P. M. M.</i>
119	ENSURE WATER GOES INTO RADIATOR AND TANK SIGHT GLASS IS LOWER AT APPROX 180 DEGREES ON WATER TANK TEMP GAGE. CHECK COOLING WATER AMPLIFIER FOR LEAKS DURING LOAD BOX TEST.	<i>P. M. M.</i>
120	PERFORM OUTBOUND AIR BRAKE LEAKAGE TESTS AND VERIFY AUTOMATIC AND INDEPENDENT WORK CORRECTLY. APPLY AUTOMATIC BRAKE TO FULL SERVICE POSITION, CUT OUT AIR VALVE, AND VERIFY THAT BRAKE CYLINDERS STAY APPLIED FOR FIVE (5) MINUTES.	<i>P. M. M.</i>
121	APPLY INDEPENDENT BRAKES, MOVE REVERSER TO FORWARD, OPEN THROTTLE AND OBSERVE AMPERAGE ON AMPERAGE METER. RETURN THROTTLE TO IDLE, MOVE REVERSER TO REVERSE, OPEN THROTTLE AND OBSERVE AMPERAGE ON AMPERAGE METER. IF NO AMPERAGE APPEARS, IDENTIFY AND CORRECT PROBLEM.	<i>W. M. M.</i>
122	CHECK OPERATION OF CAB HEATERS AND REFRIGERATOR. MAKE REPAIRS AS NECESSARY.	<i>D</i>
	PERFORM ALL 200 SERIES INSPECTIONS AND TESTS WITH LOCOMOTIVE INSIDE OF SHOP BUILDING	<i>W. M. M.</i>
200	CHECK THAT ALL ACCESS PANEL HATCHES AND DOORS OF ELECTRICAL EQUIPMENT AND CABINETS ARE IN PLACE AND SECURED AND PROPERLY STENCILED WITH WARNING LABELS	<i>W. M. M.</i>
201	CLEAN AND INSPECT CAB. MAKE SURE NO TOOLS OR DEBRIS IS ON THE FLOOR. CLEAN WINDOWS INSIDE AND OUT.	
202	CHECK ALL CIRCUITS FOR GROUNDS, SHORT CIRCUITS AND DAMAGED INSULATION.	<i>D</i> see defect sheet
	PERFORM TOP DECK INSPECTION	E. side Wilcox / C. side Wilcox
	GREASE FAN & DRIVE	Wilcox

203	INSPECT ELECTRICAL EQUIPMENT POWER CONTACTOR TIPS, ARC CHUTES AND INTERLOCK PLUNGER BOLTS. CHECK FOR BURNED WIRING AND LOOSE OVERHEATED ELECTRICAL CONNECTIONS.	W Blang
204	INSPECT MASTER CONTROLLER (17KCT20), CLEANING CONTACT BRUSH WEAR DUST OR DEBRIS FROM DYNAMIC BRAKE POTENTIOMETER (IF PAINTED GREY VERSION) WITH DRY COMPRESSED AIR.	W Blang
205	TEST ALL GAUGES FOR ACCURACY	Assay
206	INSPECT LOW PRESSURE FUEL HOSE. REPLACE AS NECESSARY.	Wilcox
207	INSPECT MAIN ALTERNATOR COMMUTATOR, SLIP RINGS AND BRUSHES. DRESS COMMUTATOR AS NECESSARY. REPLACE (IN SETS ONLY!) CHIPPED, CRACKED OR DAMAGED BRUSHES AND THOSE TOO SHORT TO LAST UNTIL NEXT INSPECTION (IF ALL THREE MARKED LINES ARE NOT VISIBLE, BRUSHES ARE TOO SHORT AND MUST BE REPLACED).	W Blang
208	INSPECT AUXILIARY ALTERNATOR AND EXCITER COMMUTATOR, SLIP RINGS AND BRUSHES. DRESS COMMUTATOR AS NECESSARY. REPLACE (IN SETS ONLY!) CHIPPED, CRACKED OR DAMAGED BRUSHES AND THOSE TOO SHORT TO LAST UNTIL NEXT INSPECTION. (IF ALL THREE MARKED LINES ARE NOT VISIBLE, BRUSHES ARE TOO SHORT AND MUST BE REPLACED). Record on	W Blang
209	INSPECT DYNAMIC BRAKE BLOWER MOTORS AND FUEL BOOSTER PUMP MOTOR COMMUTATOR, SLIP RINGS AND BRUSHES. DRESS COMMUTATOR AS NECESSARY. REPLACE (IN SETS ONLY!) CHIPPED, CRACKED OR DAMAGED BRUSHES AND THOSE TOO SHORT TO LAST UNTIL NEXT INSPECTION. (IF ALL THREE MARKED LINES ARE NOT VISIBLE, BRUSHES ARE TOO SHORT AND MUST BE REPLACED). Record on brush sheet.	W Blang
210	REMOVE CARBON BUILD UP FROM CRANKCASE BREATHER PIPE IN EXHAUST STACK (IF EQUIPPED).	Wilcox
211	REPLACE FUEL FILTER ELEMENT.	JAM
212	GREASE AND INSPECT GOVERNOR LINKAGE TO FUEL RACKS FOR PROPER OPERATION. APPLY TORQUE ADAPTER AND CHECK THAT TORQUE REQUIRED TO OPERATE LINKAGE DOES NOT EXCEED 25 FT.-LBS.	Forrest
213	CHANGE ALL LUBE OIL FILTERS, CLEAN LUBE OIL STRAINER AND TAKE LUBE OIL SAMPLE	J.A.

214	INSPECT ALL FLEXIBLE COUPLINGS. CHECK RUBBER BUSHINGS FOR DETERIORATION, REPLACE AS NECESSARY	Wilcox
215	INSPECT EXHAUST MANIFOLD, HEAT SHIELDS, SILENCER AND EXHAUST STACK.	N/A DONE ON #111
216	CHECK OIL LEVEL OF RADIATOR FAN GEAR BOX	Wilcox
217	REPLACE BAGGIE AIR FILTERS WITH NEW ELEMENTS (MAY BE REQUIRED ON THIS INSPECTION DEPENDING ON LOCAL CONDITIONS).	Forrest
/	ALL 300 SERIES INSPECTIONS AND TESTS ARE IN CONNECTION WITH THE DIESEL ENGINE OF THE LOCOMOTIVE AND SHOULD BE PERFORMED INSIDE OF SHOP BUILDING	/
300	VISUALLY INSPECT ALL COMPONENTS OF THE CRANK CASE OF DIESEL ENGINE	E. side Wilcox / C. side Wilcox B-S beam bed
/	ALL 400 SERIES INSPECTIONS AND TESTS ARE IN CONNECTION WITH THE LOCOMOTIVE PLATFORM OF THE LOCOMOTIVE AND SHOULD BE PERFORMED INSIDE OF SHOP BUILDING	/
400	INSPECT ENTIRE LOCOMOTIVE FOR LOOSE BOLTS, NUTS AND PIPE JOINTS. TIGHTEN OR REPAIR AS APPROPRIATE.	Forrest
401	CLEAN RADIATORS.	OK Wilcox
402	INSURE THAT SAND BOXES ARE FULL.	OK Forrest
403	INSPECT ALL HAND RAILS AND RAILINGS TO INSURE THEY ARE STRAIGHT AND SECURE.	Wilcox
404	INSPECT ALL LIGHT BULBS TO INSURE THEY ARE OPERATIONAL.	FOSTER
405	CHECK COUPLER HEIGHT (950 MM MIN, 1080 MM MAX, 1050 MM NOMINAL) AND DRAFT GEAR ON BOTH ENDS FOR FREE SLACK (FREE SLACK SHALL NOT EXCEED 13 MM) AND RECORD-FRONT: <u>5m</u> REAR: <u>5m</u>	Wilcox
406	WASH EXTERIOR OF BATTERY TRAYS. INSPECT BATTERIES FOR PROPER ELECTROLYTE LEVEL, FILLING AS NECESSARY, CHECK ALL ELECTRICAL CONNECTIONS, FLUSH AND GREASE TERMINALS AS NEEDED, CHECK AND RECORD SPECIFIC GRAVITY ON BACK OF THIS SHEET.	be Mue
407	TEST / QUALIFY MU JUMPER CABLE WITH TESTER	N/A
/	ALL 500 SERIES INSPECTIONS AND TESTS ARE IN CONNECTION WITH THE UNDERFRAME AND BOGIES OF THE LOCOMOTIVE AND SHOULD BE PERFORMED INSIDE OF SHOP BUILDING OVER AN INSPECTION PIT.	/

* 1-6 TMs coming out

500	PERFORM TRACTION MOTOR LUBRICATION INSPECTION. CHECK FOR HEAVY FILM OF LUBRICANT ON GEAR TEETH. IF LOW, FILL TO BOTTOM OF LOWER INSPECTION OPENING (GE	* Dove
501	INSPECT WHEELS FOR CRACKS, SHELLED TREADS OR FLAT SPOTS. CHECK FOR PROPER RIM THICKNESS AND MAKE CORRECTIONS AS NECESSARY. COMPLETE WHEEL INSPECTION REPORT.	See defect sheet
502	DRAIN WASTE OIL RETENTION TANK. INSPECT DRAIN TROUGHS ALONG THE WALKWAYS TO ENSURE DRAIN HOLES ARE NOT PLUGGED.	No there is not
503	CHECK OIL LEVEL IN JOURNAL BOXES (IF APPLICABLE) Most have timken	* Wilcox
504	CHECK TRACTION MOTOR NOSE SUSPENSION FOR DAMAGE, DETERIORATED RUBBER PADS, SEPARATION OF RUBBER FROM STEEL SEPARATORS AND FOR CRACKS IN PARTS OR AT WELDS. RENEW WEAR PLATES WHEN EXCESSIVELY WORN.	See defect sheet
505	INSPECT TRUCK WEAR PLATES FOR PRESENCE, CRACKED WELDS AND EXCESSIVE WEAR. MEASURE PEDESTAL WEAR LINER WEAR AND REPLACE IF WORN TO 11 MM OR LESS. REPLACE AS NECESSARY. INSPECT SHOCK ABSORBERS FOR LEAKING CYLINDERS OR LOOSE MOUNTING HARDWARE. INSPECT TIE BAR BOLTS FOR TIGHTNESS	Wilcox
506	CHECK GEARCASE BOLTS FOR PROPER SECUREMENT BY GENTLY TAPPING WITH A HAMMER TO DETECT LOOSE BOLTS. IF LOOSE, TORQUE: CASE TO MOTOR-440-495 ft.-lbs., GEARCASE HALVES-185-210 ft.-lbs.	Wilcox
507	DRAIN FUEL TANK CONDENSATION.	
508	INSPECT TRUCKS FOR LOOSE OR DRAGGING EQUIPMENT. REPAIR AS NEEDED. ENSURE THAT SAND PIPES ARE PROPERLY ALIGNED SO THAT THE SANDERS DEPOSIT SAND ON RAIL IN FRONT OF WHEELS.	Wilcox
509	INSPECT BRAKE RIGGING, BRAKE BLOCKS AND SLACK ADJUSTERS FOR EXCESSIVE WEAR. REPLACE BRAKE BLOCKS AS NEEDED. ADJUST SLACK ADJUSTER AS NEEDED FOR PROPER PISTON TRAVEL WHICH MUST NOT EXCEED 150 MM.	Wilcox
	ALL 600 SERIES INSPECTIONS AND TESTS ARE IN CONNECTION WITH THE FINAL INSPECTION AND RELEASE OF THE LOCOMOTIVE AND SHOULD BE PERFORMED OUTSIDE OF SHOP BUILDING.	

~~424~~
 424
 168
 3392
 2540
 28832

600	PERFORM OUTBOUND SELF LOAD TEST AND RECORD HP, AMPS, VOLTS, BATTERY VOLTS, WATER AND OIL TEMP	Battery: 73.5V Meter: 6.8V H.P.: 2883 HP FOSTER
601	ENSURE WATER GOES INTO RADIATOR AND TANK SITE GLASS IS LOWER AT APPROX 180 DEGREES ON WATER TANK TEMP GAGE	
602	PERFORM OUTBOUND AIR BRAKE LEAKAGE TESTS AND VERIFY AUTOMATIC AND INDEPENDENT WORK CORRECTLY. APPLY AUTOMATIC BRAKE TO FULL SERVICE POSITION, CUT OUT AIR VALVE, AND VERIFY THAT BRAKE CYLINDERS STAY APPLIED FOR FIVE (5) MINUTES.	
603	APPLY INDEPENDENT BRAKES, MOVE REVERSER TO FORWARD, OPEN THROTTLE AND OBSERVE AMPERAGE ON AMPERAGE METER. RETURN THROTTLE TO IDLE, MOVE REVERSER TO REVERSE, OPEN THROTTLE AND OBSERVE AMPERAGE ON AMPERAGE METER. IF NO AMPERAGE APPEARS, IDENTIFY AND CORRECT PROBLEM.	FOSTER
604	CHECK SANDERS FOR PROPER OPERATION, COMPRESSOR PICK-UP AND DROP-OUT PRESSURES, AND INSPECT ANY OIL, FUEL OR WATER LEAKS CORRECTED.	
605	RUN AUTO SELF TEST USING DID PANEL.	NA
606	REVIEW COMMENT AND DEFECT SHEETS AND CORRECT ANY DEFECTS NOT CORRECTED.	
0	SUPERVISOR'S SIGNATURE	

Montreal, Maine, & Atlantic Railway
Mechanical Department

Unit Number. 5026

Date 5/30/07

1. Inspect traction motor wicks and report action

- #1. _____
- #2. _____
- #3. _____
- #4. _____
- #5. _____
- #6. _____

* all 6 coming out

BRUSH RECORD

VIT # ~~5026~~

DATE 5/30/07

MAIN ALTERNATOR

POS	1	2	3	4	B	W
9						
10						
11						
12						
2						

SIGNATURE [Signature]

NO. 1 TRACTION MOTOR

POS	1	2	3	B	W
3					
6					✓
9					
12					

SIGNATURE [Signature] see defect sheet

NO. 2 TRACTION MOTOR

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

SIGNATURE [Signature] see defect sheet

AUXILIARY GENERATOR

POS	1	2	3	B	W
2					
4					
8					
10					

SIGNATURE [Signature]

NO. 3 TRACTION MOTOR

POS	1	2	3	B	W
3					
6					
9					
12					

SIGNATURE [Signature]

NO. 4 TRACTION MOTOR

POS	1	2	3	B	W
3					
6					
9					
12					

SIGNATURE [Signature] see defect sheet

EXCITER GENERATOR

POS	1	2	3	B	W
2					
4					
8					
10					

SIGNATURE [Signature]

NO. 5 TRACTION MOTOR

POS	1	2	3	B	W
3					
6					
9					✓
12					

SIGNATURE [Signature]

NO. 6 TRACTION MOTOR

POS	1	2	3	B	W
3					
6					
9					
12					

SIGNATURE [Signature]

DYNAMIC BRAKING BLOWER MOTORS

FRONT

POS	1	B	W
2			
4			
8			
10			

SIGNATURE _____

REAR

POS	1	B	W
2			
4			
8			
10			

SIGNATURE _____

FUEL PUMP MOTOR

POS	1	B	W
3			
9			

SIGNATURE [Signature]

Cab heater brushes O.K.-Foster.

DEFECT	CORRECTIVE ACTION TAKEN	SIGNATURE
# Nose light + gauge light out # Wheel BAD	Replaced bulbs.	FOSTER
DYNAMIC Brake BP	Tested on inbound "OK" Forward Rev.	N.L.
FSR Wiper VANDER	Hissing	
Power circuit low meg reading	(Tests just under 1MΩ today - FOSTER)	
Tm #4 3 axle brush holder w/ broken clip	replaced broken holder w/ new	
Tm #4 Bellows bolts missing	replaced w/ new	
Tm #3 Inspection Cover Gasket falling off	"Super 77" to the rescue	
Tm #2 Insp. Cover Pins worn off cover	Motor is coming out - should have new pins welded in when motor is out on floor. (Replaced cover - FOSTER)	
Tm #2 Bottom Insp. Cover too craggy	lets in dirt - replaced with new	
Tm #1 AA leads worn through to the cable	Covered bare spots and secured leads.	FOSTER
L-3 Flange lub. loose + hitting wear plate		
3 snubbers missing on R + L side	None on Steel	Wilcox
#1 wheels high than flanges		
#2 wheels high flanges		
#3 wheels sharp + thin flanges		
#4 wheels sharp + thin flange		
#5 wheels high flanges		
#6 wheel sharp flange		
replaced 4 brake adj pins		Wilcox
replaced 3 brake shoes		Wilcox
Rags + Metal in Fan Room need to be removed	done	Wilcox
R-5 cam bad	(Replaced) CAM	Dave
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: _____ Unit No: _____	Foreman in Charge _____	Inspection: _____

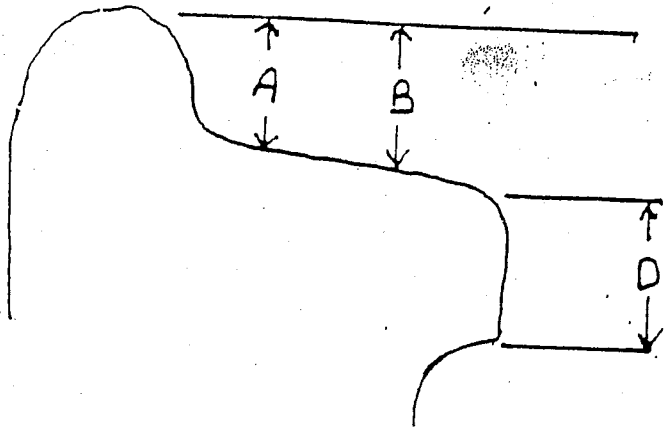
MONTREAL, MAINE AND ATLANTIC RAILWAY

Quarterly Mechanical Maintenance

Unit 5026

Date 5-31-07

REPORT SHEET
WHEEL, COUPLER and SIDE BEARING



$C = B \text{ MINUS } A$

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

WHEEL	RIGHT SIDE				LEFT SIDE				NOSE SUSPENS. CLEARANCE
	A	B	e Flange	D	A	B	e flange	D	
NO. 1	1.16	1.14	thin	1.14	1.14	1.15		1.18	1/16
NO. 2	1.15	1.13		1.16	1.15	1.15		1.16	1/8
NO. 3	1.14	1.11	sharp thin	1.22	1.10	1.12		1.26	3/16
NO. 4	1.06	1.09		1.22	1.12	1.12	sharp thin	1.22	1/8
NO. 5	1.15	1.16		1.24	1.15	1.10		1.20	0
NO. 6	1.06	1.07		1.16	1.08	1.09	sharp	1.14	1/8

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 see defect sheet
 Inspect all wheels for thin flanges (15/16" min.). See defect sheet
 Inspect all wheels for flat and shell spots. OK Wilcox
 Inspect Front and rear draft gears and couplers. OK Wilcox
 Inspect support brgs., caps, and gear cases for cracks. OK Wilcox

REPORT ALL DEFECTS AND NEAR DEFECTS TO FOREMAN

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

comments:

Bangor and Aroostook System
Locomotive
Quarterly Mechanical Maintenance

Unit 5026

Date 6-1-07

3 Month Federal Air Work

=> 26-L Air Brake System <=

Signature

Harvey
Harvey
Harvey

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.

Forrest

Forrest

Forrest

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

COMMENTS:

lube all BRAKE pistions

Harvey