

MO3/619



Locomotive Release from Shop Form

To be completed on every engine released from the Shop

I have reviewed the work packet for locomotive 5078 on this date 3-8-12 and take no exception to applicable laws, rules and or MMA standards, policies and standards.

Oil sample - *by Hesse*  
 Grease -  
 Cooling fan - *Hess*  
 Comp shaft - *Hess*  
 Equipment blower - *Hesse*  
 " " 1" shaft rubber mount *Hess*

Changed Salem fitters - *J. Harin*

# Service Operations

## THROTTLE 8 INBOUND LOAD TESTS

UNIT 5078

DATE 3-8-12

Eng RPM (900)	EMD	_____	Lube Oil Pres	_____
Eng RPM (1050)	GE	_____	Water Temp	<u>145°F</u>
Horsepower		<u>2918-7</u>	Overspeed Setting	<u>OK</u>
Volts (5.3)	B-23	_____	RACK SETTING	_____
Volts (7)	C-30	<u>6.9</u>		
Volts (720)	B-39	_____		

*[Signature]*

## THROTTLE #1 STALL TEST

OP Mode	(PWR)	_____	
AMPS	(300)	_____	
MGA	(1220)	_____	NOT APPLICABLE TO B-23 AND C-30
Charging Rate	(70v)	<u>73.7</u>	

*[Signature]*

TL 24T

Throttle 1	(1V)	_____
Throttle 2		_____
Throttle 3		_____
Throttle 4		_____
Throttle 5		_____
Throttle 6		_____
Throttle 7 <sup>th</sup>		_____
Throttle 8	(72V)	_____

**B-23, B-39, C-30, GP-7 MO3 INSPECTION**

*In-Bound Loadtest Electrical/Mechanical*

WORKED BY:

**ELECTRICAL**

- VERIFY THE OPERATION OF THE GROUND RELAY
- CHECK FOR LOW VOLTAGE GROUNDS (7 watt bulb)
- WHILE IN THROTTLE 3 LOAD TEST. CHECK FOR AC GROUNDS
- CHECK OPERATION OF:
  - A. HEATING
- COMPLETE THE OUTBOUND LOAD TEST SHEETS
- GROUND RELAY-(TEST THREE TIMES TO VERY LOCK-OUT (DYNAMIC & POWER)
- IF EQUIPPED, VERIFY THE OPERATION OF THE LDVR CAMERA

*[Signature]*  
*[Signature]*  
 -NA-  
*[Signature]*  
 -NA-

**MECHANICAL**

- PROPER LUBRICATION? FUEL LEAKS? CAM ROLLER ROTATION? ETC.
- INSPECT FUEL SYSTEM HOSES AND PIPES FOR LEAKS
- INSPECT COOLING SYSTEM:
  - A: CHECK HOSES AND PIPES FOR LEAKS
- CHECK OPERATION OF ENGINE PROTECTION DEVICES:
  - A. CRANKCASE PRESSURE
- VISUALLY INSPECT AIR COMPRESSOR FOR WATER, AIR OR OIL LEAKS
- PERFORM MANUAL AIR BRAKE TEST
- Verify Flow Gauge
  - 130 main reservoir is 64 + or - 3,
  - reservoir is 60 + 0
- PERFORM PENALTY BRAKE TEST
- CHECK FOR CORRECT AIR PRESSURE SETTINGS:
  - A. MAIN RESERVOIR (130 - 140 PSI)
  - B. BRAKE PIPE (90 PSI)
  - C. EQUALIZING RESERVOIR (90 PSI)
  - D. BRAKE CYLINDER (72 - 74 PSI)
  - E. COMPRESSOR CONTROL (130 - 140 PSI +/- 5 PSI)
- CHECK FLUID LEVELS BEFORE LOADING:
  - A: ENGINE OIL
  - B: COOLING WATER
  - C: AIR COMPRESSOR OIL
- TEST OPERATION OF THE FOLLOWING DEVICES:
  - A. BELL
  - B. SANDERS (FORWARD, REVERSE, EMERGENCY)
  - C. RADIATOR SHUTTERS

NOTE: 120-  
130-140 main

*CHANGE AHH SAFETY NOVEMBER TO APRIL 1ST*

**B-23, B-39, C-30, GP-7 MO3 INSPECTION**

Revision Date: 06/26/2010  
 Issued By: Tim Scalia

ELECTRICAL IN HOUSE	WORKED BY:
SERVICE THE BATTERIES	<i>J. Hart</i>
VERIFY EVENT RECORDER IS WORKING	<i>J. Hart</i>
CHECK & RECORD THE DATE ON HEAD END DEVICE <u>3-1-12</u>	<i>J. Hart</i>
CLOSELY INSPECT THE HEAD END DEVICE CONNECTOR. ENSURE IT IS TIGHTLY CONNECTED AND NOT CROSS THREADED	<i>J. Hart</i>
CHECK THE FOLLOWING EQUIPMENT AND THEIR RELATED GUARDS AND LENSES FOR PROPER OPERATION:	<i>J. Hart</i>
CHECK ALL GROUND AND STEP LIGHTS, FRONT AND REAR HEADLIGHTS, DITCH LIGHTS, CAB LIGHTS, GAUGE LIGHTS, NUMBER PLATES, PLATFORM LIGHTS, ALL WARNING AND INDICATOR LIGHTS	<i>J. Hart</i>
<b>TRACTION MOTORS AND UNDERFRAME</b>	
CHECK THE TRACTION MOTOR LEADS, VERIFY NO LEADS ARE RUBBING ON THE FRAME	<i>J. Hart</i>
INSPECT TRACTION MOTOR COVERS AND ENSURE BOLTS ARE IN PLACE AND TIGHT	<i>J. Hart</i>
CHECK M.U. RECEPTACLE PINS AND LIDS. MAKE NECESSARY REPAIRS	<i>J. Hart</i>
MAKE SURE M.U. CABLES DO NOT FOUL COUPLERS	<i>J. Hart</i>

CHECKED EXC GEN BRUSHES - *J. Hart*

MAINE GEN OUTER SLIPRING BRUSHES REMOVED - (2 out of 3) D-5TV  
 Replaced 3 main gen brushes *J. Hart*

B-23, B-39 -30, GP-7 MO3 INSPECTION

MECHANICAL IN HOUSE

WORKED BY:

REVIEW LAB CODE AND PERFORM A COMPLETE AIRBOX/CRANKCASE INSPECTION IF A LAB CODE EXISTS

WITH THE ENGINE WARM, PRESSURE TEST COOLING SYSTEM AT 20 PSI FOR 15 MINUTES AND IF THE PRESSURE ON THE GAUGE DOES NOT DROP, THEN NO FURTHER ACTION IS REQUIRED

CHANGE THE FOLLOWING FILTERS AND ASSOCIATED GASKETS:

FUEL SPIN ON FILTERS, EMD ONLY

SOAK BACK FILTER, EMD ONLY

TURBO SPIN ON FILTER, EMD ONLY

*Engine filters OK*  
*Oil filters*  
*Comp "*  
*Fuel "*

*Ray B.*  
*Ray B.*  
*Ray B.*  
*Ray B.*

COMPLETE FRA INSPECTION (DAILY INSPECTION CHECKLIST)

CARBODY

INSURE SAND NOZZLES AND HOSES ARE IN PLACE AND SECURED. MAKE SURE THEY ARE ALIGNED WITH WHEEL AND TRACK. INSPECT SAND TRAPS AND REPAIR AS NEEDED.

INSPECT COUPLERS & DRAFT GEARS. MAKE REPAIRS AS NECESSARY

CHECK KNUCKLE CLEARANCE AND KNUCKLE THROWER, MAKE REPAIRS AS NEEDED AND APPLY SPARE KNUCKLES (E AND F TYPE) (2.5")

INSPECT PIN LIFTERS CHECKING FOR PROPER HAND CLEARANCE AND ANTI-CREEP

CHECK SNOWPLOW (IF EQUIPPED) FOR HANDHOLDS AND PROPER DISTANCE

CHECK AUTO BLOWDOWNS FOR PROPER OPERATIONS IN AUTOMATIC MODE

ENSURE SUMP DRAINS ARE OPEN AND FREE OF DEBRIS

*J. Hoadie*  
*Kim Hasey / Todd Goodine*  
*J. Hoadie*  
*J. Hoadie*  
*J. Hoadie*

TRUCKS

INSPECT WICK BOLT SECUREMENT AND REPAIR IF NECESSARY

CHECK SUSPENSION BEARING OIL LEVEL

CHECK JOURNAL BOX OIL LEVEL (FILL TO POINT OF OVERFLOW)

CHECK GEAR CASES AND INSPECT BULL GEAR (ADD 6lbs. OF GEARCASE GREASE)

CHECK OIL FILLED GEAR CASES AND FILL (RECORD USAGE BELOW)

# 1 TRACTION MOTOR: OIL USED *COMING out*

# 2 TRACTION MOTOR: OIL USED *100 LB*

# 3 TRACTION MOTOR: OIL USED *"*

# 4 TRACTION MOTOR: OIL USED *"*

# 5 TRACTION MOTOR: OIL USED *"*

# 6 TRACTION MOTOR: OIL USED *"*

*Kim Hasey / Todd Goodine*  
*J. Hoadie*  
*Kim Hasey / Todd Goodine*

INSPECT ALL BRAKE HANGERS, HEADS, GUIDES AND STRAPS ENSURING BRAKE SHOES ARE IN LINE WITH WHEELS

*Todd Goodine*  
*Todd Goodine*  
*Kim Hasey*  
*Kim Hasey*  
*Todd Goodine*

CAB

CHECK FIRE EXTINGUISHERS' DATE AND TAG. REPLACE IF USED OR OUT OF DATE.

CHECK CAB SEATS FOR PROPER OPERATION INSURING ALL BOLTS ARE IN PLACE AND TIGHT.

CHECK HANDBRAKE AND INSPECT DATE. MAKE REPAIRS AS NECESSARY

*J. Hoadie*  
*J. Hoadie*

MISC

IN ACCORDANCE WITH FRA 229.23, VERIFY AIR GAUGES (+/- 3PSI) (CALIBRATE AT +/- 1PSI, REQUIRES 130 PSI MR)

CHECK ALL FLUID LEVELS, ENGINE OIL, COOLING WATER, AIR COMPRESSOR OIL

DRAIN RETENTION TANK

TOILET MAINTENANCE:

A. INSPECT/REPAIR AS NEEDED TOILET DRAIN VALVE & FLOOR SEALS

INSPECT CAB SEATS. REPAIR AND LUBRICATE AS REQUIRED

INSPECT AND REPAIR AS REQUIRED:

A. CAB / CARBODY/DOORS/HINGES/WINDOWS/LATCH SEALS/WEATHER STRIPPING AND SEALS/MIRRORS. ALSO LUBRICATE/CHANGE AS NEEDED

A. CLEAN THE CAB, WINDOWS, AND EQUIPMENT

COMPLETE WINTERIZATION SHEET (SEPTEMBER-FEBRUARY)

WASH LOCOMOTIVE ENGINE/ENGINE ROOM/AND AIR COMPRESSOR ROOM

WASH THE LOCOMOTIVE

*J. Hoadie*

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NOTE: 120-130-140 main

# Service Operations

## THROTTLE 8 OUTBOUND LOAD TESTS

UNIT \_\_\_\_\_

DATE \_\_\_\_\_

Eng RPM (900)	EMD	_____	Lube Oil Pres	_____
Eng RPM (1050)	GE	_____	Water Temp	<u>180</u>
Horsepower		_____	Overspeed Setting	_____
Volts (5.3)	B-23	_____	RACK SETTING	<u>19.5</u>
Volts (7)	C-30	<u>6.7</u>		
Volts (720)	B-39	_____		

### THROTTLE #1 STALL TEST

OP Mode	(PWR)	_____	
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MGA	(1220)	_____	NOT APPLICABLE TO B-23 AND C-30
Charging Rate	(70v)	<u>720</u>	



### TL 24T

Throttle 1	(1V)	_____
Throttle 2		_____
Throttle 3		_____
Throttle 4		_____
Throttle 5		_____
Throttle 6		_____
Throttle 7		_____
Throttle 8	(72V)	_____