

UN

Locomotive Release from Shop Form

To be completed on every engine released from the Shop

I have reviewed the work packet for locomotive 508 on this date 11-10-10 and take no exception to applicable laws, rules and or MMA standards, policies and standards.



# Service Operations

## THROTTLE 8 INBOUND LOAD TESTS

UNIT 5018

DATE 11-10-10

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

## THROTTLE #1 STALL TEST

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

*D & D on Inbound*

D+D

B-23, B-39, C-30, GP-7 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 IN-BOUND LOAD TEST SHEETS
- GROUND RELAY-(TEST THREE TIMES TO VERY LOCK-OUT)(DYNAMIC & POWER)
- CHECK THE FOLLOWING FOR PROPER OPERATION:
  - A. CREW ALERT
  - B. RADIO AND ANTENNA
  - C. AXLE ALT. SPEEDO
  - D. MU ENGINE SHUTDOWN
  - E. FUEL CUT-OFF
  - F. TEST WARNING DEVICES

MECHANICAL

- CLEAN AND SERVICE TOILET AND RESTROOM
- DRAIN RETENTION TANK
- 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 NOTE: 120-
  - 130 main reservoir is 64 + or - 3, 130-140 main
  - reservoir is 60 + o
- 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

# Service Operations

## THROTTLE & INBOUND LOAD TESTS

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Volts (5.3)	B-23	_____	RACK SETTING	_____
Volts (7)	C-30	_____		
Volts (720)	B-39	_____		

### THROTTLE #1 STALL TEST

OP Mode	(PWR)	_____	
AMPS	(300)	_____	
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Charging Rate	(70v)	_____	

Unit: 5018

Date: 11-10-10

### DEFECTS FOUND DURING INSPECTION

DEFECT	<u>not maintaining Equalizing Res.</u>	INSPECTED BY:	<u>MC</u>
REPAIR	<u>found bad goring in cont. Stand Replaced it (OK) Held air no leaks for 24min.</u>	CORRECTED BY:	<u>MC</u>

DEFECT	<u>no mu cradles</u>	INSPECTED BY:	<u>MC/JH</u>
REPAIR	<u>Put cradles on</u>	CORRECTED BY:	<u>MC/JH</u>

DEFECT	<u>Engine lost all its water</u>	INSPECTED BY:	<u>MC/JH</u>
REPAIR	<u>found upper boot blown apart</u>	CORRECTED BY:	<u>MC/JH</u>

DEFECT	<u>Bad outer rear cond. side grid.</u>	INSPECTED BY:	<u>MC/JH</u>
REPAIR	<u>OK</u>	CORRECTED BY:	<u>per</u>

DEFECT	<u>Comp Drive Coupling B/O</u>	INSPECTED BY:	<u>AA/MC</u>
REPAIR	<u>Replaced Coupling - # 416612391 P1</u>	CORRECTED BY:	<u>PC/JA</u>

Unit: \_\_\_\_\_

Date: \_\_\_\_\_

### DEFECTS FOUND DURING INSPECTION

DEFECT _____ _____ _____	INSPECTED BY: _____
REPAIR _____ _____ _____	CORRECTED BY: _____

DEFECT _____ _____ _____	INSPECTED BY: _____
REPAIR _____ _____ _____	CORRECTED BY: _____

DEFECT _____ _____ _____	INSPECTED BY: _____
REPAIR _____ _____ _____	CORRECTED BY: _____

DEFECT _____ _____ _____	INSPECTED BY: _____
REPAIR _____ _____ _____	CORRECTED BY: _____

DEFECT _____ _____ _____	INSPECTED BY: _____
REPAIR _____ _____ _____	CORRECTED BY: _____



# Description of Work Performed

Locomotive ID 5018

Time Started

Time Finished

Found upper water Boot Blown apart.

Replaced water boot. Put 2 new mu cradles on.

Squeezed unit found no leaks.

Replaced 12lb cap on water tank.

Replaced & adj. brake shoes.

Found an air leak on equalizing res.

Fixed that. Equalizing Res held pressure

with no loss for 24 min. Took unit

out to sand started unit found

out Drive shaft from engine to comp.

not turning. Tried to load engine

lost cond. Side rear outer Grid.

Employee Signature \_\_\_\_\_ Form to fill out completely and Signature must be legible.



