

UNscheduled



Last Federal mileage  
2-21-13

Locomotive Release from Shop Form

To be completed on every engine released from the Shop

I have reviewed the work packet for locomotive 8546 on this date 4-29-13 and take no exception to applicable laws, rules and or MMA standards, policies and standards.

8546 - come in with possible GR issues - none showing on Computer History.  
Had almost 100 faults on Low water psi unit been using water -

Defects Found

water flow valve on top of H<sub>2</sub>O Tank - Leaking bad -  
Replaced All gaskets - ✓ on self load - All good  
Bell cartridge bad - Replaced - ✓ Good  
compressor not working - inlet/suction valves on HP cyl. bad  
Replaced both w/new valves - Good

UNIT 8546

# Service Operations

DATE 4-29-13

## THROTTLE 8 INBOUND LOAD TESTS

Eng RPM (900)	EMD	<u>                    </u>	Lube Oil Pres	<u>85</u>
Eng RPM (1050)	GE	<u>                    </u>	Water Temp	<u>182°</u>
Horsepower		<u>3754</u>	Overspeed Setting	<u><del>                    </del></u>
Volts (5.3)	B-23	<u>                    </u>	RACK SETTING	<u>23.50</u>
Volts (7)	C-30	<u>                    </u>		
Volts (720)	B-39	<u><del>2804</del> 712</u>		

## THROTTLE #1 STALL TEST

OP Mode	(PWR)	<u>                    </u>	
AMPS	(300)	<u>3804</u>	
MGA	(1220)	<u>                    </u>	NOT APPLICABLE TO B-23 AND C-30
Charging Rate	(70v)	<u>                    </u>	



REVISION DATE: 8/18/2010  
ISSUED BY: Tim. Scafia

**B-23, B-39, C-30, GP-7 UNSCHEDULED**

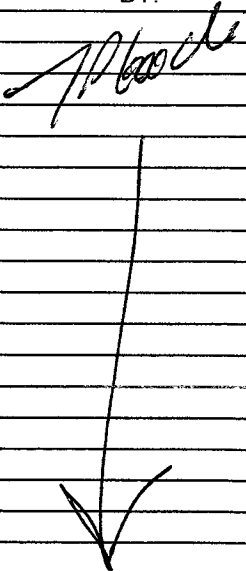
**UNIT:**

ITEM	<i>In-Bound Or Running Electrical</i> <b>ELECTRICAL</b>	<b>WORKED BY:</b>
	ONLY INBOUND LOAD BOX A SWITCHER IF IT'S NECESSARY AND REPORTED WITH LOADING ISSUES. OTHERWISE THE LOAD BOX ON A SWITCHER WILL BE DONE ON THE OUTBOUND	
	REVIEW COMPUTER ARCHIVE DATA AND NOTE ON DEFECT SHEETS IF APPLICABLE	
	NOTE SIGNIFICANT FAULTS ON DEFECT SHEETS.	
	DOWNLOAD & TEST EVENT RECORDER SYSTEM,	
	TEST RADIO ANTENNA WITH MFJ-269 ANALYZER	
	CLOSELY INSPECT THE HEAD END DEVICE CONNECTOR. ENSURE IT IS TIGHTLY CONNECTED AND NOT CROSS THREADED	
	PERFORM ALL LOCOMOTIVE SELF TEST FUNCTIONS	
	B. CHECK FOR AC GROUNDS IN COOLING FAN CIRCUIT WITH TEST LIGHT (30 watt bulb) ONLY APPLIES TO GP-7.	
	CHECK OPERATION OF GROUND RELAY (TEST THREE TIMES TO VERY LOCK-OUT)(DYNAMIC & POWER)	
	CHECK FOR LOW VOLTAGE GROUNDS (7 watt bulb)	
	WHILE IN THROTTLE 3 LOAD TEST, CHECK FOR AC GROUNDS. DOES NOT APPLY TO C-30, B-23 AND B-39.	
	CHECK OPERATION OF:	
	A. HEATING	
	B. WINDSHIELD HEATERS/DEFOGGER (SEPTEMBER - FEBRUARY)	
	CHECK OPERATION OF ALERTNESS DEVICES	
	CHECK OPERATION OF ALL EMERGENCY FUEL SHUTOFF DEVICES	
	A. EMERGENCY FUEL CUTOFFS	
	B. MU ENGINE STOP	



**B-23, B-39, C-30, GP-7 UNSCHEDULED**

**UNIT:**

ITEM	<i>In-Bound Or Running Mechanical</i> <b>MECHANICAL</b>	WORKED BY:
	INSPECT ENGINE OVERHEAD (WITH ENGINE AT IDLE):	
	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	
	VISUALLY INSPECT AIR COMPRESSOR FOR WATER, AIR OR OIL LEAKS	
	TEST AIR BRAKE EQUIPMENT PER RULE 212	
	PERFORM PENALTY BRAKE TEST	
	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	
	INSPECT AIR COMPRESSOR GOVERNOR SETTING. 135 TO 145 PSI	
	INSPECT SAFETY POP. 155 PSI	

Unit: 8546

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

### DEFECTS FOUND DURING INSPECTION

DEFECT <u>2 Bad B-shoes</u>	INSPECTED BY: <u>JP Good</u>
REPAIR <u>Replaced 2 shoes</u>	CORRECTED BY: <u>JP Good</u>

DEFECT <u>Cont. tank Full</u>	INSPECTED BY: <u>JP Good</u>
REPAIR <u>Drained</u>	CORRECTED BY: <u>JP Good</u>

DEFECT <u>Low on H<sub>2</sub>O</u>	INSPECTED BY: <u>JP Good</u>
REPAIR <u>Filled &amp; Added treatment</u>	CORRECTED BY: <u>JP Good</u>

DEFECT <u>Bell not working</u>	INSPECTED BY: <u>JP Good</u>
REPAIR <u>Replaced bell cartridge</u>	CORRECTED BY: <u>JP Good</u>

DEFECT <u>Comp. not working</u>	INSPECTED BY: <u>JP Good</u>
REPAIR <u>Replaced both inlet valves on HP cyl. old valve come apart - pumping back through into cooler</u>	CORRECTED BY: <u>JP Good</u>

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

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

### DEFECTS FOUND DURING INSPECTION

DEFECT	<i>Bad H<sub>2</sub>O leak on H<sub>2</sub>O Flow control valve baskets bad</i>	INSPECTED BY:	<i>[Signature]</i>
REPAIR	<i>Replaced all 4 baskets - Tested good on self load when water cycled through</i>	CORRECTED BY:	<i>[Signature]</i>

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

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

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

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

UNIT#					
DATE	DESCRIPTION	PART #	QUANTITY	INSTALLED	AWP
9/30/13	3 1/2 victaulic seal	41C62490018	1	8546	0234
	GE Bell cartridge		1	8546	0234
	2 B-shoes		2	8546	0234
	Gasket / Discharge elbow	115X1208	4	8546	0234

# Description of Work Performed

Locomotive ID \_\_\_\_\_

Time Started \_\_\_\_\_

Time Finished \_\_\_\_\_



# Description of Work Performed

Locomotive ID

Time Started

Time Finished

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



English

**B-23, B-39, C-30, GP-7 UNSCHEDULED**

**UNIT:**

*Out-Bound Loadtest Electrical/Mechanical*

WORKED

ITEM

**MECHANICAL**

BY:

- INSPECT ENGINE OVERHEAD (WITH ENGINE AT IDLE):
- 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
- VISUALLY INSPECT AIR COMPRESSOR FOR WATER, AIR OR OIL LEAKS
- TEST AIR BRAKE EQUIPMENT PER RULE 212
- PERFORM PENALTY BRAKE TEST
- CHECK FLUID LEVELS BEFORE LOADING:
- A: ENGINE OIL
- B: COOLING WATER
- C: AIR COMPRESSOR OIL
- INSPECT SAND TRAP, NOZZLES, HOSES AND BRACKETS
- TEST OPERATION OF THE FOLLOWING DEVICES:
- A. BELL
- B. SANDERS (FORWARD, REVERSE, EMERGENCY)
- C. RADIATOR SHUTTERS

**ELECTRICAL**

- CHECK FOR LOW VOLTAGE GROUNDS (7 watt bulb)
- IF A TRACTION MOTOR WAS REPLACED, ROLL TEST THE LOCOMOTIVE TO ENSURE THE TM LEADS ARE PROPERLY HOOKED UP
- WHILE IN THROTTLE 3 LOAD TEST, CHECK FOR AC GROUNDS. DOES NOT APPLY TO C-30, B-23 AND B-39.
- CHECK OPERATION OF:
- A. HEATING
- COMPLETE THE LOAD TEST SHEETS
- INSPECT AIR COMPRESSOR GOVERNOR SETTING. 135 TO 145 PSI
- INSPECT SAFETY POP. 155 PSI



# Service Operations

## THROTTLE 8 OUTBOUND LOAD TESTS

UNIT \_\_\_\_\_

DATE \_\_\_\_\_

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)	_____	