



3609

Locomotive Release from Shop Form

To be completed on every engine released from the Shop

I have reviewed the work packet for locomotive 3609 on this date _____ and take no exception to applicable laws, rules and or MMA standards, policies and standards.



Service Operations

THROTTLE & INBOUND LOAD TESTS

UNIT _____

DATE _____

Eng RPM (900)	EMD	_____	Lube Oil Pres	<u>610 psi</u>
Eng RPM (1050)	GE	_____	Water Temp	<u>180°</u>
Horsepower		_____	Overspeed Setting	<u>OK</u>
Volts (5.3)	B-23	_____	RACK SETTING	<u>OK</u>
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)	_____	

TL 24T

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



REVISION:
 REVISION DATE: 06/22/2010
 ISSUED BY: T. A. Scalia

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

UNIT: **3609**

ITEM	In-Bound Or Running Electrical ELECTRICAL	WORKED BY:
	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,	<i>DWH</i>
	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	<i>JAM/KH Seed defect</i>
	B. CHECK FOR AC GROUNDS IN COOLING FAN CIRCUIT WITH TEST LIGHT (30 watt bulb) ONLY APPLIES TO GP-7.	<i>JAM/KH</i>
	CHECK OPERATION OF GROUND RELAY	<i>NK...</i>
	(TEST THREE TIMES TO VERY LOCK-OUT)(DYNAMIC & POWER)	<i>JAM/KH / nG</i>
	CHECK FOR LOW VOLTAGE GROUNDS (7 watt bulb)	<i>JAM/KH</i>
	WHILE IN THROTTLE 3 LOAD TEST, CHECK FOR AC GROUNDS. DOES NOT APPLY TO C-30, B-23 AND B-39.	<i>TAN/AH</i>
	CHECK OPERATION OF:	
	A. HEATING	<i>JAM/KH</i>
	B. WINDSHIELD HEATERS/DEFOGGER (SEPTEMBER - FEBRUARY)	
	CHECK OPERATION OF ALERTNESS DEVICES	<i>JAM/KH</i>
	CHECK OPERATION OF ALL EMERGENCY FUEL SHUTOFF DEVICES	<i>JAM/KH</i>
	A. EMERGENCY FUEL CUTOFFS	<i>Paul Collogne</i>
	B. MU ENGINE STOP	<i>Paul Collogne</i>

2828 H.P.



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

UNIT:

ITEM	MECHANICAL <i>In-Bound Or Running Mechanical</i>	WORKED BY:
	INSPECT ENGINE OVERHEAD (WITH ENGINE AT IDLE):	JAM
	PROPER LUBRICATION? FUEL LEAKS? CAM ROLLER ROTATION? ETC.	JAM
	INSPECT FUEL SYSTEM HOSES AND PIPES FOR LEAKS	K.H.
	INSPECT COOLING SYSTEM:	JAM
	A: CHECK HOSES AND PIPES FOR LEAKS	JAM
	VISUALLY INSPECT AIR COMPRESSOR FOR WATER, AIR OR OIL LEAKS	K.H.
	TEST AIR BRAKE EQUIPMENT PER RULE 212	K.H.
	PERFORM PENALTY BRAKE TEST	P.W.C.
	CHECK FLUID LEVELS BEFORE LOADING:	JAM
	A: ENGINE OIL	JAM
	B: COOLING WATER	JAM
	C: AIR COMPRESSOR OIL	JAM
	TEST OPERATION OF THE FOLLOWING DEVICES:	K.H.
	A. BELL	JAM
	B. SANDERS (FORWARD, REVERSE, EMERGENCY)	P. Grogan
	C. RADIATOR SHUTTERS	JAM
	INSPECT AIR COMPRESSOR GOVERNOR SETTING. 135 TO 145 PSI	D.R.S.
	INSPECT SAFETY POP. 155 PSI	K.H.



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 REPAIRED, 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

DRS

DRS

DRS

PWC

PWC

K.H.

P. Goulogue

PWC

P. Goulogue

P. Goulogue

K.H.

PWC

P. Goulogue

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PWC

P. Goulogue



Service Operations

THROTTLE 8 OUTBOUND LOAD TESTS

UNIT 3609

DATE 7-8-10

Eng RPM (900)	EMD	_____	Lube Oil Pres	<u>WOPS.</u>
Eng RPM (1050)	GE	_____	Water Temp	<u>170</u>
Horsepower		_____	Overspeed Setting	<u>OK</u>
Volts (5.3)	B-23	_____	RACK SETTING	<u>OK</u>
Volts (7)	C-30	<u>6.61</u>		
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)	_____	

TL 24T

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

Unit: _____

Date: _____

DEFECTS FOUND DURING INSPECTION

DEFECT	Need 12 Months Mileage	INSPECTED BY:	K.H.
REPAIR	OK	CORRECTED BY:	J.R. Swider

DEFECT	Need water put in pin Board Done	INSPECTED BY:	K.H.
REPAIR		CORRECTED BY:	K.H.

DEFECT	Need to be squeezed, Before Load test	INSPECTED BY:	K.L.
REPAIR	Water Leaks when Cold Done	CORRECTED BY:	J.R.S.

DEFECT	Water pump leaks when cold	INSPECTED BY:	
REPAIR	Water leak over #1 cyl. Main WATER pipe	CORRECTED BY:	DS/PC

DEFECT	Water leak Water leak above on oil cooler Fitting above L-1 power power assembly	INSPECTED BY:	DS/PC
REPAIR	exhaust leak B-1 PA	CORRECTED BY:	PC

- ① C.M.R Test not working
- ② Radio Fittings are Fixed
- ③ ~~power~~ # L-7 not popping well OK

DS

Unit: 3609

Date: 6-25-10

DEFECTS FOUND DURING INSPECTION

DEFECT	R1 Broken Rocker Arms & Bent Push Rod Bad PA Leak down test.	INSPECTED BY: MC / KH
REPAIR	Changed Rocker Ass. & Push Rods. Changed out PA R#1 & ADJUSTED	CORRECTED BY: M.C./KH / J. Anderson

DEFECT	R1 Airbox FIRE (DONE)	INSPECTED BY: MPC KH
REPAIR	Fire caused by bad Rocker ass & Sucked Valve.	CORRECTED BY: MC / KH

DEFECT	L2 Broken Rocker Assembly. Put new Rocker Assembly in	INSPECTED BY: MC
REPAIR	✓ IN ADJUSTED	CORRECTED BY: KH

DEFECT	L4 Broken Rocker Assembly Power Asm NFG Valves sucked up & Broken	INSPECTED BY: MC
REPAIR	Put in Rebuilt Power Asm & Rings & inj pump	CORRECTED BY: KE - KH

DEFECT	R5 Loose Intake valve Adj.	INSPECTED BY: MC
REPAIR	Adjusted Intake valves.	CORRECTED BY: KH

Took a oil sample KH.

Description of Work Performed

Locomotive ID 3609 Time Started 800 AM Time Finished 2:30pm

Removed Push Rods From R 1 Replaced with regualified Rods. Timed up + adj. valves. Did a top Deck inspection. Found L #2 & L #4 also had broken Rocker assemblies, R #5 had loose adj. on Intake valves. adj. that. Did a leak down test on R #1 it failed that test. Air blowing out into base of exhaust. Need to replace P/A. Took off old P/A Exhaust Valve had sucked into seat. Took piston off Regualified piston added new crown, new rings put P/A on, needs to be hooked up.

L 2 PA needs to come out

L 4 PA needs to come out

DONE

Federal card on 12 month air was overdue. Blue card Ran out 6/6/10. for 368 day.

Description of Work Performed

Locomotive ID

Time Started

Time Finished

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

UNIT#	DATE	DESCRIPTION	PART #	QUANTITY	INSTALLED	AWP
	4/25	Replaced P/A	6L 94	2	yes	
	4-29	Rings	150X1250	2 set	yes	
	4-29	inj pump	132X 1710	2	yes	
	4-29	Pow ASM H/Down Bolts	121X 1186-1	4	yes	
	4-29	Washers	121X 1187	4	yes	
	4-29	150X1087 Gasket Kit	150 X 1087-1	2	yes	
	4-29	oval Exhaust	128 X 1006-1	2	yes	
	4-29	Fuel pump Kit	150 X 1096-2	2	yes	
	4-29	Gasket	115 X 2590	2	yes	
	4-29	3" water Gasket	41A 213752P9	4	yes	
	7-2	Cover	4748663G-1	1	yes	