



Locomotive Release from Shop Form

To be completed on every engine released from the Shop

I have reviewed the work packet for locomotive 5023 on this date 9-7-10 and take no exception to applicable laws, rules and or MMA standards, policies and standards.

*Washed unit  
Painted Floor*

A handwritten signature, possibly "Jal", is enclosed in an oval. The signature is written in a cursive style.

not running

UNIT \_\_\_\_\_

DATE \_\_\_\_\_

### Service Operations

#### THROTTLE 8 INBOUND LOAD TESTS

Eng RPM (900)	FMD	_____	Lube Oil Pres	_____
Eng RPM (1050)	GF	_____	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)	_____	

#### TL 24T

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

*not Running*

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

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

**UNIT:**

*In-Bound Or Running Electrical*

ITEM

**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,
- 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

*NOT Running*

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

UNIT:

ITEM	<i>In-Bound Or Running Mechanical</i> MECHANICAL	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	

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:

*M. Carley J. Black*  
*M. Carley J. Black*  
*M. Carley J. Black*

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:

*J. Black*  
*M. Carley*  
*M. Carley*  
*M. Carley*

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

*J. Black*  
*J. Black*  
*J. Black*

*J. Black*  
*J. Black*

**ELECTRICAL**

CHECK FOR LOW VOLTAGE GROUNDS (7 watt bulb)  
IF A TRACTION MOTOR WAS REPALCED, 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 OPERTION OF:

OK

—  
—

A. HEATING  
COMPLETE THE LOAD TEST SHEETS  
INSPECT AIR COMPRESSOR GOVERNOR SETTING. 135 TO 145 PSI  
INSPECT SAFETY POP. 155 PSI

*M. Carley*

*M. Carley*  
*J. Black*

# Service Operations

UNIT \_\_\_\_\_

DATE \_\_\_\_\_

## THROTTLE 8 OUTBOUND LOAD TESTS

Eng RPM (900)	FWD	_____	Lube Oil Pres	_____
Eng RPM (1050)	GI	_____	Water Temp	_____
Horsepower		2635	Overspeed Setting	_____
Volts (5.3)	B-23	_____	RACK SETTING	_____
Volts (7)	C-30	617		
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)	_____

487  
 2989  
 4270  
 256200  
 263459

Unit: 5023

Date: 9-7-10

DEFECTS FOUND DURING INSPECTION

DEFECT	<u>UNIT CAME IN SHUT DOWN -</u>	INSPECTED BY:	<u>K. Thompson B.</u>
REPAIR		CORRECTED BY:	

DEFECT	<u>#7 cyl LEFT ADJUSTMENT, SCREWS BROKEN AIR BOX FIRE</u>	INSPECTED BY:	<u>K. Hasey</u>
REPAIR	<u>changed power air put new crown on piston put new rings on all new gaskets</u>	CORRECTED BY:	<u>Mike Corley / K. Hasey</u>

DEFECT	<u>Took oil sample</u>	INSPECTED BY:	<u>K. Hasey</u>
REPAIR	<u>  </u>	CORRECTED BY:	<u>K. Hasey</u>

DEFECT	<u>L-6 POWER ASSEMBLY BROKEN ROCKER ARM, SUCKED EXHAUST VALVE</u>	INSPECTED BY:	<u>M. Corley</u>
REPAIR	<u>Replaced power assembly</u>	CORRECTED BY:	<u>m Corley, J. Black</u>

DEFECT	<u>5, 6 EXHAUST SECTIONS BAD</u>	INSPECTED BY:	<u>m Corley, J. Black</u>
REPAIR	<u>Replaced #5 with RTO Replaced #6</u>	CORRECTED BY:	<u>m Corley, J. Black</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	Time Started	Time Finished

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

UNIT#	DATE	DESCRIPTION	PART #	QUANTITY	INSTALLED	AWP
5003		2 Rebuilt Power Ass.		2	yes	
		1 Exhaust Section		1	"	
		Exhaust Gaskets		8	"	
		2 Fuel Pumps		2	"	

$$\begin{array}{r} 427 \\ 6.1 \\ \hline 427 \\ 25480 \\ \hline 2590.7 \end{array}$$