



Locomotive Release from Shop Form

To be completed on every engine released from the Shop

I have reviewed the work packet for locomotive 5017 on this date 7-19-10 and take no exception to applicable laws, rules and or MMA standards, policies and standards.

*Norman Kelly*



UNIT \_\_\_\_\_

DATE \_\_\_\_\_

# Service Operations

## THROTTLE 8 INBOUND LOAD TESTS

Eng RPM (900)	EMD	<u>                    </u>	Lube Oil Pres	<u>                    </u>
Eng RPM (1050)	GE	<u>                    </u>	Water Temp	<u>                    </u>
Horsepower		<u>                    </u>	Overspeed Setting	<u>                    </u>
Volts (5.3)	B-23	<u>                    </u>	RACK SETTING	<u>79.5</u>
Volts (7)	C-30	<u>                    </u>		
Volts (720)	B-39	<u>                    </u>		

## THROTTLE #1 STALL TEST

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

## TL 24T

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



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

**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 OPERTION 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	



English

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

UNIT: 5017

*Out-Bound Loadtest Electrical/Mechanical*

WORKED

ITEM

**MECHANICAL**

BY:

INSPECT ENGINE OVERHEAD (WITH ENGINE AT IDLE):

J. Hartin

PROPER LUBRICATION? FUEL LEAKS? CAM ROLLER ROTATION? ETC.

J. Hartin

INSPECT FUEL SYSTEM HOSES AND PIPES FOR LEAKS

J. Hartin

INSPECT COOLING SYSTEM:

J. Hartin

A: CHECK HOSES AND PIPES FOR LEAKS

J. Hartin

VISUALLY INSPECT AIR COMPRESSOR FOR WATER, AIR OR OIL LEAKS

J. Hartin

TEST AIR BRAKE EQUIPMENT PER RULE 212

PERFORM PENALTY BRAKE TEST

J. Hartin

CHECK FLUID LEVELS BEFORE LOADING:

A: ENGINE OIL

J. Hartin

B: COOLING WATER

J. Hartin

C: AIR COMPRESSOR OIL

J. Hartin

INSPECT SAND TRAP, NOZZLES, HOSES AND BRACKETS

J. Hartin

TEST OPERATION OF THE FOLLOWING DEVICES:

A. BELL

J. Hartin

B. SANDERS (FORWARD, REVERSE, EMERGENCY)

J. Hartin

C. RADIATOR SHUTTERS

**ELECTRICAL**

CHECK FOR LOW VOLTAGE GROUNDS (7 watt bulb)

J. Hartin

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

J. Hartin

COMPLETE THE LOAD TEST SHEETS

J. Hartin

INSPECT AIR COMPRESSOR GOVERNOR SETTING. 135 TO 145 PSI

J. Hartin

INSPECT SAFETY POP. 155 PSI

J. Hartin



# Service Operations

## THROTTLE 8 OUTBOUND LOAD TESTS

UNIT \_\_\_\_\_

DATE \_\_\_\_\_

Eng RPM (900)	EMD	<u>          </u>	Lube Oil Pres	<u>75</u>
Eng RPM (1050)	GE	<u>1050</u>	Water Temp	<u>165°</u>
Horsepower		<u>3010</u>	Overspeed Setting	<u>1050</u>
Volts (5.3)	B-23	<u>          </u>	RACK SETTING	<u>19.5</u>
Volts (7)	C-30	<u>7.1</u>		
Volts (720)	B-39	<u>          </u>		

## THROTTLE #1 STALL TEST

OP Mode	(PWR)	<u>Notch 1</u>	
AMPS	(300)	<u>290</u>	
MGA	(1220)	<u>          </u>	NOT APPLICABLE TO B-23 AND C-30
Charging Rate	(70v)	<u>73.9</u>	

## TL 24T

Throttle 1	(1V)	<u>6.2</u>
Throttle 2		<u>17.5</u>
Throttle 3		<u>26.7</u>
Throttle 4		<u>40.4</u>
Throttle 5		<u>50.9</u>
Throttle 6		<u>58.8</u>
Throttle 7		<u>66.7</u>
Throttle 8	(72V)	<u>70.7</u>

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

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

### DEFECTS FOUND DURING INSPECTION

DEFECT <u>Loco. not charging</u>	INSPECTED BY: <u>J.M</u>
REPAIR <u>Repaired bad connection at Voltage Regulator plug</u>	CORRECTED BY: <u>J.M</u>

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: \_\_\_\_\_

### 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

5017

Time Started

7-19-10

9:00

Time Finished

7-19-10  
11:59 AM

Secured wiring to voltage regulator  
Tested OK.

New plug on order.

# Description of Work Performed

Locomotive ID

Time Started

Time Finished

Locomotive ID	Time Started	Time Finished

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

UNIT#	DESCRIPTION	PART #	QUANTITY	INSTALLED	AWP
DATE					