



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 2-2-11 and take no exception to applicable laws, rules and or MMA standards, policies and standards.

Oil out & stacks - Repaired

R5 cyl.
putting oil out stack

replaced piston/crown
rings

New Lines

J. P. Gaudin / K. H. H. H. H. H.

1-29-11



Service Operations

UNIT _____

DATE _____

THROTTLE 8 INBOUND LOAD TESTS

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)	_____	NOT APPLICABLE TO B-23 AND C-30
AMPS	(300)	_____	
MGA	(1220)	_____	
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:

ITEM	<p align="center"><i>In-Bound Or Running Electrical</i></p> <p align="center">ELECTRICAL</p>	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	



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	

UNIT COME IN DEAD & DRAINED



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):

J. Brown

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

J. Brown



UNIT 5017

Service Operations

DATE 2-2-11

THROTTLE 8 OUTBOUND LOAD TESTS

Eng RPM (900)	EMD	_____	Lube Oil Pres	_____
Eng RPM (1050)	GE	_____	Water Temp	<u>180°</u>
Horsepower		_____	Overspeed Setting	_____
Volts (5.3)	B-23	_____	RACK SETTING	_____
Volts (7)	C-30	<u>7.12</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)	<u>71 volts</u>	

TL 24T

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

Unit: 5017

Date: 1-31-11

DEFECTS FOUND DURING INSPECTION

DEFECT <u>R5 cyl. pushing oil out Exhaust</u>	INSPECTED BY: <u>R. Woodie / K. Hussey</u>
REPAIR <u>Did compression TEST on All 16 cyl. R5 Had 325 psi - but oil rings worn out + piston crown was loose. Installed New piston / rings / crown + cylinder</u>	CORRECTED BY: <u>R. Woodie / K. Hussey</u>

DEFECT <u>Locomotive ROOF / Handrails / walkways COVERED WITH OIL FROM Exhaust</u>	INSPECTED BY: <u>R. Woodie / K. Hussey</u>
REPAIR <u>WASHED ENTIRE LOCOMOTIVE</u>	CORRECTED BY: <u>R. Woodie / K. Hussey</u>

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 1-31-11 ^{1100 hrs} Time Finished 2-2-11 ^{1000 hrs}

unit come in with oil blowing out stack - performed compression test

L	R
1 320 psi	1 340
2 280	2 330
3 325	3 350
4 300	4 325
5 300	5 325
6 320	6 350
7 320	7 370
8 320	8 290

Took off A.R. Box lid on BOTH sides ✓ For oil in Air box system
light oil in Both sides of Air box system - Aftercooler dry

Took off Exhaust caps - inspected for oil in Exhaust system
Found R5 to have oil coming out Exhaust port into Exhaust system

Removed R5 power Assembly - Found oil Rings worn out
Found piston to be loose - Replaced with new piston / crown / rings & cylinder
P. Goolie
K. Hussey

Load boxed 5017 for 1 1/2 hrs afterwards - No oil out stack - P. Goolie
K. Hussey

UNIT#	DATE	DESCRIPTION	PART #	QUANTITY	INSTALLED	AWP
	2-1-11	piston crown	142 X1073	1	5017	
	2-2-11	piston Ring Set	150 X1250	1	5017	
	2-2-11	injector pump	132 X1710	1	5017	
	2-4-11	12 pent Exhaust bolt	733P33020	4	5017	
	2-4-11	Gasket Kit 5 for cyl installation				
	2-1-11	power Assembly	121 X1280	1	5017	
	2-1-11	15 Amp heater breaker	41A21241401	1	5017	