

8592  
UN

CAME IN BAD AIR BOX FIRE / BLACK SMOKE

Found Bad R-2 Power Assembly. changed out 12-01-10  
Cleaned & Repaired Air Boxes.

Unit TRIPS CRANK CASE switch Snotch →

Locomotive Release from Shop Form

To be completed on every engine released from the Shop

I have reviewed the work packet for locomotive 8592 on this  
date 12-7-10 and take no exception to applicable laws, rules and or MMA  
standards, policies and standards.

D4D

UNIT \_\_\_\_\_

# Service Operations

DATE \_\_\_\_\_

## THROTTLE & INBOUND LOAD TESTS

Eng RPM (900)	FMD	_____	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)	_____	

*DAD*

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

<i>In-Bound Loadtest Electrical/Mechanical</i>	WORKED BY:
<b>ELECTRICAL</b>	
VERIFY THE OPERATION OF THE GROUND RELAY	
CHECK FOR LOW VOLTAGE GROUNDS (7 watt bulb)	
WHILE IN THROTTLE 3 LOAD TEST, CHECK FOR AC GROUNDS	
CHECK OPERATION OF:	
A. HEATING	
COMPLETE THE IN-BOUND LOAD TEST SHEETS	
GROUND RELAY-(TEST THREE TIMES TO VERY LOCK-OUT)(DYNAMIC & POWER)	
CHECK THE FOLLOWING FOR PROPER OPERATION:	
A. CREW ALERT	
B. RADIO AND ANTENNA	
C. AXLE ALT. SPEEDO	
D. MU ENGINE SHUTDOWN	
E. FUEL CUT-OFF	
F. TEST WARNING DEVICES	
<b>MECHANICAL</b>	
CLEAN AND SERVICE TOILET AND RESTROOM	
DRAIN RETENTION TANK	
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	
CHECK OPERATION OF ENGINE PROTECTION DEVICES:	
A. CRANKCASE PRESSURE	
VISUALLY INSPECT AIR COMPRESSOR FOR WATER, AIR OR OIL LEAKS	
PERFORM MANUAL AIR BRAKE TEST	
Verify Flow Gauge	NOTE: 120-
130 main reservoir is 64 + or - 3,	130-140 main
reservoir is 60 + o	
PERFORM PENALTY BRAKE TEST	
CHECK FOR CORRECT AIR PRESSURE SETTINGS:	
A. MAIN RESERVOIR (130 - 140 PSI)	
B. BRAKE PIPE (90 PSI)	
C. EQUALIZING RESERVOIR (90 PSI)	
D. BRAKE CYLINDER (72 - 74 PSI)	
E. COMPRESSOR CONTROL (130 - 140 PSI +/- 5 PSI)	
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	

*outbound*

*D+D*

UNIT 8592

DATE 12-7-10

### Service Operations

#### THROTTLE 8 INBOUND LOAD TESTS

Eng RPM (900)	EMD	<u>          </u>	Lube Oil Pres	<u>          </u>
Eng RPM (1050)	GE	<u>1050</u>	Water Temp	<u>180</u>
Horsepower		<u>3733</u>	Overspeed Setting	<u>          </u>
Volts (5.5)	B-23	<u>8</u>	RACK SETTING	<u>28 3/4</u>
Volts (7)	C-30	<u>          </u>		
Volts (720)	B-39	<u>705</u>		

*3800 Amp*

#### THROTTLE #1 STALL TEST

OP Mode	(PWR)	<u>          </u>	
AMPS	(300)	<u>300</u>	
MGA	(1220)	<u>          </u>	NOT APPLICABLE TO B-23 AND C-30
Charging Rate	(70v)	<u>74.5</u>	

Unit: B592

Date: 12-6-10

### DEFECTS FOUND DURING INSPECTION

DEFECT <u>R2 Leaking water down into base</u>	INSPECTED BY:
REPAIR <u>Drained out oil (all) Replaced R2 cyl. (squeezed before installation) Squeezed again after installed - Refilled oil in base</u>	CORRECTED BY: <u>TPG-MC</u>

DEFECT <u>Bonded drive out of date</u>	INSPECTED BY: <u>M. Coiley</u>
REPAIR <u>Changed bonded drive</u>	CORRECTED BY: <u>TPG-MC</u>

DEFECT <u>Turbo screen bad</u>	INSPECTED BY: <u>TPG-MC</u>
REPAIR <u>Took out screen &amp; cleaned</u>	CORRECTED BY: <u>TPG-MC</u>

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 8592 Time Started 12-3-10 Time Finished 12-6-10

R2 power Assem. bad - Replaced - Squeezed before & after installation - Re-filled with new oil / Michana filters changed. Bonded drive was dated 6-04.

Changed out bonded drive & cleaned turbo screen. Filled w/ water & Rust Inhibitor.

DIO showed 0.0 Crankcase pressure.

Manometer showed 1" vacuum. COTG.

# Description of Work Performed

Locomotive ID

Time Started

Time Finished

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



