

5016



~~5016~~

Locomotive Release from Shop Form

To be completed on every engine released from the Shop

I have reviewed the work packet for locomotive 5016 on this date 1-04-11 and take no exception to applicable laws, rules and or MMA standards, policies and standards.

# 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)  | _____ |                                 |
| AMPS          | (300)  | _____ |                                 |
| MGA           | (1220) | _____ | NOT APPLICABLE TO B-23 AND C-30 |
| Charging Rate | (70v)  | _____ |                                 |

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

**In-Bound Loadtest Electrical/Mechanical**

**ELECTRICAL**

WORKED BY:

- 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

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*J. Black*  
*J. Black*

*J. Black*  
*J. Black*

**MECHANICAL**

- 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

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NOTE: 120-130-140 main

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*J. Black*

- Verify Flow Gauge  
130 main reservoir is 64 + or - 3,  
reservoir is 60 + 0
- 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

# Service Operations

## THROTTLE 8 INBOUND LOAD TESTS

UNIT \_\_\_\_\_

DATE \_\_\_\_\_

|                |      |                  |                   |             |
|----------------|------|------------------|-------------------|-------------|
| Eng RPM (900)  | EMD  | _____            | Lube Oil Pres     | _____       |
| Eng RPM (1050) | GE   | _____            | Water Temp        | <u>170°</u> |
| Horsepower     |      | <u>6.7 volts</u> | 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)  | _____ |                                 |

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

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

### DEFECTS FOUND DURING INSPECTION

|  |                                  |
|--|----------------------------------|
| DEFECT <u># 5 Exhaust SECTION CRACKED</u>  | INSPECTED BY:<br><u>J. BLACK</u> |
| REPAIR <u>Replaced section and gaskets</u> | CORRECTED BY:<br><u>J. Black</u> |

|  |                                  |
|--|----------------------------------|
| DEFECT <u>Exhaust Gaskets bad on # 6 section</u> | INSPECTED BY:<br><u>J. Black</u> |
| REPAIR <u>Replaced gaskets</u>                   | CORRECTED BY:<br><u>J. Black</u> |

|  |                                  |
|--|----------------------------------|
| DEFECT <u>Exhaust GASKETS bad on # 4 SECTION</u> | INSPECTED BY:<br><u>J. Black</u> |
| REPAIR <u>Replaced gaskets</u>                   | CORRECTED BY:<br><u>J. Black</u> |

|   |                                  |
|---|----------------------------------|
| DEFECT <u>Water Jumper cracked on # 5 cyl.</u>  | INSPECTED BY:<br><u>J. Black</u> |
| REPAIR <u>Replaced water jumper and gaskets</u> | CORRECTED BY:<br><u>J. Black</u> |

|   |                                  |
|---|----------------------------------|
| DEFECT <u>Bolts missing on R 9 pedestal Liner</u> | INSPECTED BY:<br><u>J. Black</u> |
| REPAIR <u>Replaced Bolts (3)</u>                  | CORRECTED BY:<br><u>J. Black</u> |

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

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

### DEFECTS FOUND DURING INSPECTION

|                                |                        |
|--------------------------------|------------------------|
| DEFECT _____<br>_____<br>_____ | INSPECTED BY:<br>_____ |
| REPAIR _____<br>_____<br>_____ | CORRECTED BY:<br>_____ |

|                                |                        |
|--------------------------------|------------------------|
| DEFECT _____<br>_____<br>_____ | INSPECTED BY:<br>_____ |
| REPAIR _____<br>_____<br>_____ | CORRECTED BY:<br>_____ |

|                                |                        |
|--------------------------------|------------------------|
| DEFECT _____<br>_____<br>_____ | INSPECTED BY:<br>_____ |
| REPAIR _____<br>_____<br>_____ | CORRECTED BY:<br>_____ |

|                                |                        |
|--------------------------------|------------------------|
| DEFECT _____<br>_____<br>_____ | INSPECTED BY:<br>_____ |
| REPAIR _____<br>_____<br>_____ | CORRECTED BY:<br>_____ |

|                                |                        |
|--------------------------------|------------------------|
| DEFECT _____<br>_____<br>_____ | INSPECTED BY:<br>_____ |
| REPAIR _____<br>_____<br>_____ | CORRECTED BY:<br>_____ |

# Description of Work Performed

Locomotive ID

3016

Time Started

Time Finished

8 Hrs

Removed # 5 EXHAUST SECTION

Replaced GASKETS ON # 4, # 5, # 6 EXHAUST SECTIONS

2 Hrs

Replaced WATER JUMPER ON # 5 cyl

Refilled with water, TESTED OK

# 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 |
|-------|--------|-------------------|------------|----------|-----------|-----|
|       |        |                   |            |          |           |     |
|       | 1-3-11 | EXHAUST GASKETS   | 128-137-1  | 6        |           |     |
|       | 1-3-11 | RAWN TUBE GASKETS | 128 X 1358 | 6        |           |     |
|       |        |                   |            |          |           |     |
|       |        |                   |            |          |           |     |
|       |        |                   |            |          |           |     |
|       |        |                   |            |          |           |     |
|       |        |                   |            |          |           |     |
|       |        |                   |            |          |           |     |
|       |        |                   |            |          |           |     |
|       |        |                   |            |          |           |     |
|       |        |                   |            |          |           |     |
|       |        |                   |            |          |           |     |
|       |        |                   |            |          |           |     |
|       |        |                   |            |          |           |     |
|       |        |                   |            |          |           |     |
|       |        |                   |            |          |           |     |
|       |        |                   |            |          |           |     |
|       |        |                   |            |          |           |     |