

## Marmon Railroad Services

### PM for LEAF

Mechanic: Bruce Henderson/James Mackowe  
 Date: 5/29/2025  
 Location Number: \_\_\_\_\_  
 Location Name: St. Louis, MO

Locomotive Number: ADMX 1220  
 Hour Meter Reading Last PM: 2250  
 Hour Meter Reading Current PM: 3289

|    | Note Defect Found                                                                       | Defect Noted by | Repaired by |
|----|-----------------------------------------------------------------------------------------|-----------------|-------------|
| 1  | clean up wiring up under cab                                                            |                 |             |
| 2  | Right front grab iron missing                                                           |                 |             |
| 3  | Front coupler pocket blown out and missing bolt on carrier                              |                 |             |
| 4  | Left front vertical grab iron has improper clearance                                    |                 |             |
| 5  | Left front hand hold not bolted                                                         |                 |             |
| 6  | Right rear hand hold smashed                                                            |                 |             |
| 7  | Missing dust covers on reversers                                                        |                 |             |
| 8  | Engineers front wiper missing                                                           |                 |             |
| 9  | Rear door window cracked                                                                |                 |             |
| 10 | Engineers seat back broken                                                              |                 |             |
| 11 | Exhaust flapper missing                                                                 |                 |             |
| 12 | Fuel sight glass leaking needs fuel manifold block with seal, and 1/2" fuel sight glass |                 |             |
| 13 | Needs a 3 year (MV has pic of brake valves)                                             |                 |             |
| 14 | front brake pipe hose needs replaced                                                    |                 |             |
| 15 | brake arm to frame needs new bushing and pin on L1 & R1                                 |                 |             |
| 16 | front headlights only work on high (3)                                                  |                 |             |
| 17 | Rear pocket needs shimmed, And draft gear                                               |                 |             |
| 18 | Brake pipe gauge in cab is missing Lens (needs replaced)                                |                 |             |
| 19 | rear headlight housing broken                                                           |                 |             |
| 20 | all window weather stripping is falling off                                             |                 |             |
| 21 | horn is not working                                                                     |                 |             |
| 22 | independent leaks                                                                       |                 |             |
| 23 | airleak undercab                                                                        |                 |             |
| 24 |                                                                                         |                 |             |
| 25 |                                                                                         |                 |             |

| Complete/<br>Answer |     | Task Description                                                                                                                                                                                                                          |
|---------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     |     | <b>Cab</b>                                                                                                                                                                                                                                |
| 1                   | JM  | Check with Site Leader for any known defects. Setup blue flag, derail, set handbrakes, chock wheels and notify crew.                                                                                                                      |
| 2                   | BH  | Check all electrical high voltage access panels for " Danger High Voltage" labels or signs. Apply as needed to FRA requirements                                                                                                           |
| 3                   | BH  | Check engineers seat and mounting base                                                                                                                                                                                                    |
| 4                   | BH  | Inspect cab windows for cracks, chips and proper operation                                                                                                                                                                                |
| 5                   | BH  | Inspect cab doors for broken hinges and proper latching                                                                                                                                                                                   |
| 6                   | BH  | Inspect cab floor condition                                                                                                                                                                                                               |
| 7                   | N/A | Enter Date: Inspect fire extinguisher for proper mounting and last date of service                                                                                                                                                        |
| 8                   | BH  | Inspect control stand for proper covers and check to see that it is properly secured                                                                                                                                                      |
| 9                   | BH  | Inspect batteries for low water ( add when necessary ) cleanliness, condition of blocking. Physically check tightness of all terminals and clean corrosion and wash batteries as needed. Grease all terminals with a light coat of grease |
|                     |     | <b>Electrical - Engine Shut Down</b>                                                                                                                                                                                                      |
| 10                  | N/A | Check condition of battery knife switch.                                                                                                                                                                                                  |
| 11                  | B   | Check all wiring, wire connections and terminal board connection in H.V. cabinet                                                                                                                                                          |
| 12                  | BH  | Check reversers for proper operation. Inspect tips on electric reversers for burning. Inspect adjust and lubricate segments and fingers on electric reversers.                                                                            |
| 13                  | N/A | Inspect magnet valves and electrical connections of electro-pneumatic reversers and power contactors                                                                                                                                      |
| 14                  | BH  | Check power contactors for proper operation. Inspect tips on electric power contactors for burning. Remove arc chute and check tips on electric power contactors for looseness, burning and pitting. Physically check tips for tightness  |
| 15                  | BH  | Check all high voltage connections on reversers, power contactors, bus bars, etc. for tightness and signs of over-heating or corrosion                                                                                                    |

|    |          |                                                                                                                                                             |               |                  |                 |            |         |
|----|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-----------------|------------|---------|
|    |          | <b>Mechanical - Engine Shut Down</b>                                                                                                                        |               |                  |                 |            |         |
| 16 | N/A      | Inspect condition of car body for cracks rust and looseness                                                                                                 |               |                  |                 |            |         |
| 17 | N/A      | Check all car body doors for proper latching                                                                                                                |               |                  |                 |            |         |
| 18 | N/A      | Change car body door filters as needed                                                                                                                      |               |                  |                 |            |         |
| 19 | JM       | Check walkways for oil, grease or any debris or other defects ( rust holes, etc.. )                                                                         |               |                  |                 |            |         |
| 20 | N/A      | Safety chains and platforms must be up and in place on none M-U locomotives                                                                                 |               |                  |                 |            |         |
| 21 | JM       | Check Gen-Set skid, drive skid, and air compressor mounting bolts for tightness                                                                             |               |                  |                 |            |         |
| 22 | JM       | Inspect and insure all coupling and shaft guards are in place and secure                                                                                    |               |                  |                 |            |         |
|    |          | <b>Trucks</b>                                                                                                                                               |               |                  |                 |            |         |
| 23 | JM       | Front Left: Record side bearing clearance (Min 1/16" Max 1/4" per side cannot exceed combined total of 1/2" per FRA rule 229-69) (3/16")                    |               |                  |                 |            |         |
| 24 | JM       | Front Right: Record side bearing clearance (1/8")                                                                                                           |               |                  |                 |            |         |
| 25 | JM       | Rear Left: Record side bearing clearance (1/8")                                                                                                             |               |                  |                 |            |         |
| 26 | JM       | Rear Right: Record side bearing clearance (1/8")                                                                                                            |               |                  |                 |            |         |
| 27 | BH       | Check all brake shoes for thickness and alignment to wheel                                                                                                  |               |                  |                 |            |         |
| 28 | N/A      | Check brake rigging for excessive wear                                                                                                                      |               |                  |                 |            |         |
| 29 | N/A      | Inspect brake straps for rubbing against wheel and straightness                                                                                             |               |                  |                 |            |         |
| 30 | N/A      | Check all brake rigging bolts and nuts for tightness and cotter pins or must be self-locking nuts                                                           |               |                  |                 |            |         |
| 31 | BH       | Check gear case clips and bolts for tightness, gear cases for leaks, and add gear grease                                                                    |               |                  |                 |            |         |
| 32 | N/A      | On GP locomotives, inspect Hyatt journal boxes for oil level                                                                                                |               |                  |                 |            |         |
| 33 | N/A      | Check pedestal wear shoes for cracks, looseness, or excessive wear                                                                                          |               |                  |                 |            |         |
| 34 | N/A      | On GP locomotives, check spring planks for broken springs and condition of safety hangers and swing arms                                                    |               |                  |                 |            |         |
| 35 | JM       | Check truck side frames, stabilizer bars and bolster for any defects, cracks, excessive wear, etc..                                                         |               |                  |                 |            |         |
| 36 | BH       | Check axle cap ( support bearing cap ) bolts for tightness and safety wiring                                                                                |               |                  |                 |            |         |
| 37 | BH       | Check support bearing wicks                                                                                                                                 |               |                  |                 |            |         |
| 38 | JM       | Check TM nest spring condition, hold in pins and pin safety hanger condition and bolts                                                                      |               |                  |                 |            |         |
| 39 | JM       | Check truck center casting for excessive wear (Max. lost motion 1/2") and lubrication                                                                       |               |                  |                 |            |         |
| 40 | JM       | Check condition of sander hoses and pipes and height off rail - min. 2 1/2 "                                                                                |               |                  |                 |            |         |
| 41 | JM       | Check condition of brake cylinder hold down bolts and piston arms                                                                                           |               |                  |                 |            |         |
| 42 | BH       | Check condition of Traction Motors including brushes for chips, cracks and proper movement. Check tightness of brush box leads and clean motors as needed   |               |                  |                 |            |         |
| 43 | BH       | Inspect all TM - car body cabling for rubbing ( against TM ) chafing and cracking and proper clamping. Repair as necessary                                  |               |                  |                 |            |         |
| 44 | JM       | Inspect fuel tank mounting bolts, filler tubes and caps for looseness or any defects and clean fuel tank sight glasses as necessary                         |               |                  |                 |            |         |
|    |          | <b>Wheel Inspection</b>                                                                                                                                     |               |                  |                 |            |         |
|    |          | Flange Height                                                                                                                                               | Rim Thickness | Flange Thickness | Vertical Flange | Tread Wear | Remarks |
| 45 | Right #1 | 0-19                                                                                                                                                        | 36            | 0-0              |                 |            |         |
| 46 | Right #2 | 0-20                                                                                                                                                        | 32            | 0-0              |                 |            |         |
| 47 | Right #3 | 0-20                                                                                                                                                        | 36            | 0-0              |                 |            |         |
| 48 | Right #4 | 0-19                                                                                                                                                        | 36            | 0-0              |                 |            |         |
| 49 | Left #1  | 0-19                                                                                                                                                        | 38            | 0-1              |                 |            |         |
| 50 | Left #2  | 0-19                                                                                                                                                        | 34            | 0-0              |                 |            |         |
| 51 | Left #3  | 0-19                                                                                                                                                        | 38            | 0-0              |                 |            |         |
| 52 | Left #4  | 0-19                                                                                                                                                        | 36            | 0-0              |                 |            |         |
|    |          | <b>Couplers and Draft Gears</b>                                                                                                                             |               |                  |                 |            |         |
| 53 | N/A      | Front: Record coupler height measuring from center of knuckle to top of rail. (Min. 31 1/2 " Max. 34 1/2 ")                                                 |               |                  |                 |            |         |
| 54 | N/A      | Rear: Record coupler height measuring from center of knuckle to top of rail.                                                                                |               |                  |                 |            |         |
| 55 | JM       | Check operation of coupler - must have 1/2 " of free lift before lock lifting pin moves upward. Must not have more than 1/2 " lost motion in coupler travel |               |                  |                 |            |         |
| 56 | JM       | Check coupler, coupler knuckle and knuckle pin for defects, cracks, excessive wear, etc.. See FRA Rule 229.61 for proper clearance of guard arm to knuckle  |               |                  |                 |            |         |
| 57 | JM       | Check condition of coupler carrier and carrier bolt. Lubricate as needed                                                                                    |               |                  |                 |            |         |
| 58 | JM       | Check draft gear and yoke for cracks and excessive wear                                                                                                     |               |                  |                 |            |         |

|                                                                  |                          |                                                                                                                                              |                                                                                                                                                                     |                          |                         |                      |         |
|------------------------------------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------|----------------------|---------|
| 59                                                               | JM                       | Check coupler (draft gear) pocket for excessive wear                                                                                         |                                                                                                                                                                     |                          |                         |                      |         |
| 60                                                               | JM                       | Check condition of coupler pin and safety pin                                                                                                |                                                                                                                                                                     |                          |                         |                      |         |
| Safety Appliances                                                |                          |                                                                                                                                              |                                                                                                                                                                     |                          |                         |                      |         |
| 61                                                               | JM                       | Check grab irons and coupler lock lift levers for proper clearance. Must be at least 2 1/2 "                                                 |                                                                                                                                                                     |                          |                         |                      |         |
| 62                                                               | JM                       | Check steps for any defects including loose bolts, loose or no kick plates and bent steps                                                    |                                                                                                                                                                     |                          |                         |                      |         |
| 63                                                               | JM                       | Check all handrails and standards for proper securment                                                                                       |                                                                                                                                                                     |                          |                         |                      |         |
| Electrical - Engine Running                                      |                          |                                                                                                                                              |                                                                                                                                                                     |                          |                         |                      |         |
| 64                                                               | N/A                      | Megger high voltage circuit and record lowest reading                                                                                        |                                                                                                                                                                     |                          |                         |                      |         |
| 65                                                               | N/A                      | Check low voltage to ground Positive post                                                                                                    |                                                                                                                                                                     |                          |                         |                      |         |
| 66                                                               | N/A                      | Check low voltage to ground Negative post                                                                                                    |                                                                                                                                                                     |                          |                         |                      |         |
| 67                                                               | BH                       | Remove back panels on control stand and check wiring, wire connections and gauge light bulbs                                                 |                                                                                                                                                                     |                          |                         |                      |         |
| 68                                                               | N/A                      | room lights FRA must have globes and guards in place on all engine room lights . All lights must work.                                       |                                                                                                                                                                     |                          |                         |                      |         |
| Mechanical - Engine Running                                      |                          |                                                                                                                                              |                                                                                                                                                                     |                          |                         |                      |         |
| 69                                                               | N/A                      | Check operation of horn, bell, sanders and windshield wipers                                                                                 |                                                                                                                                                                     |                          |                         |                      |         |
| 70                                                               | BH                       | Check hour meter for proper operation                                                                                                        |                                                                                                                                                                     |                          |                         |                      |         |
| 71                                                               | N/A                      | Check lube oil level after engine warm-up, take sample and check viscosity. Record viscosity ( min. 850 )                                    |                                                                                                                                                                     |                          |                         |                      |         |
| 72                                                               | JM                       | Check fuel system for leaks after any filter changes or work done on system                                                                  |                                                                                                                                                                     |                          |                         |                      |         |
| 73                                                               | JM                       | Make sure all radiator and fan room access panels are closed after inspection                                                                |                                                                                                                                                                     |                          |                         |                      |         |
| 74                                                               | N/A                      | Check automatic main reservoir drain valves for proper operation and manually drain reservoirs                                               |                                                                                                                                                                     |                          |                         |                      |         |
| 75                                                               | JM                       | Check air gauges to insure proper operation. Should not be hanging and no more than 3 PSI difference between equalizing and brake pipe gauge |                                                                                                                                                                     |                          |                         |                      |         |
| 76                                                               | JM                       | Perform a complete brake test and record deficiencies                                                                                        |                                                                                                                                                                     |                          |                         |                      |         |
| 77                                                               | JM                       | Check brake cylinders when applied for leaks around pistons and any defects.                                                                 |                                                                                                                                                                     |                          |                         |                      |         |
| 78                                                               | JM                       | Check to make sure main reservoir safety pop releases at 150 PSI and resets properly                                                         |                                                                                                                                                                     |                          |                         |                      |         |
| 79                                                               | JM                       | Open all car body doors while engine is running and make visual inspection                                                                   |                                                                                                                                                                     |                          |                         |                      |         |
| 80                                                               | JM                       | Walk around locomotive to make sure brake cylinders are cut in and do visual inspection of trucks, couplers and steps                        |                                                                                                                                                                     |                          |                         |                      |         |
| Gen-Set PM Operations Manual Pg 24                               |                          |                                                                                                                                              |                                                                                                                                                                     |                          |                         |                      |         |
|                                                                  |                          | Frequency                                                                                                                                    | Part Number                                                                                                                                                         | Hours since last changed | Was date put on filter? | Properly dispose of? | Remarks |
| 81                                                               | Air Cleaner Element      | 500 hours                                                                                                                                    | 2350706                                                                                                                                                             |                          |                         |                      |         |
| 82                                                               | Primary Fuel Filter      | 300 hours                                                                                                                                    | 23530706                                                                                                                                                            |                          |                         |                      |         |
| 83                                                               | Secondary Fuel Filter    | 300 hours                                                                                                                                    | 23530645                                                                                                                                                            |                          |                         |                      |         |
| 84                                                               | Engine Oil Filter        | 300 hours                                                                                                                                    | 23530573                                                                                                                                                            |                          |                         |                      |         |
| 85                                                               | Engine Coolant Generator | Annually or as needed                                                                                                                        | 23528203                                                                                                                                                            |                          |                         |                      |         |
| 86                                                               | Bearing Grease           | 5600 hours or                                                                                                                                | Bearing Grease                                                                                                                                                      |                          |                         |                      |         |
| 87                                                               | Engine Fan Hub Grease    | 2000 hours or                                                                                                                                | Litium-base, multi-purpose grease                                                                                                                                   |                          |                         |                      |         |
| Detroit Deisel Gen-Set 500 Hour Inspection Operations Man. Pg 21 |                          |                                                                                                                                              |                                                                                                                                                                     |                          |                         |                      |         |
| 88                                                               | N/A                      | Exhaust System                                                                                                                               | Check for cracked flexes, manifolds or muffler, exhaust-gas leaks, missing gaskets and broken parts.                                                                |                          |                         |                      |         |
| 89                                                               | N/A                      | Battery Charging Alternator                                                                                                                  | Confirm proper output voltage (26-28vdc). Check tension and condition of drive belt. Replace as necessary.                                                          |                          |                         |                      |         |
| 90                                                               | N/A                      | Engine Air Intake System                                                                                                                     | Check all clamps & connections for tightness. Check all hoses & pipes for tears, holes & excessive wear. Clean pre-cleaner.                                         |                          |                         |                      |         |
| 91                                                               | N/A                      | Fuel System                                                                                                                                  | Check system for presence of water or micro growth. Check all hoses for cracks, chaffing and physical damage. Check fuel tank(s) for debris and clean as necessary. |                          |                         |                      |         |

|                                                |                |                                                                                   |                                                                                                                                                                             |                     |                         |                                      |         |
|------------------------------------------------|----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------|--------------------------------------|---------|
| 92                                             | N/A            | Coolant System                                                                    | the anticipated geographical location/condition. Check additive levels. Check all external hoses for excessive wear and leaks.                                              |                     |                         |                                      |         |
| 93                                             | NN             | Radiator Core                                                                     | Check for excessive buildup of contamination or debris, which can drastically inhibit proper air flow. - Clean.                                                             |                     |                         |                                      |         |
| 94                                             | N/A            | Cooling Fan                                                                       | Inspect fan for fatigue cracks, broken blades, loose hardware and other physical damage. Check tension & condition of fan belt.                                             |                     |                         |                                      |         |
| 95                                             | N/A            | Turbocharger                                                                      | Check for tightness of all connections & leaks. Check condition of impeller & confirm it spins freely. Look for signs of excessive oil in the air housing.                  |                     |                         |                                      |         |
| 96                                             | N/A            | Hardware Fastners                                                                 | Check tightness off all mounting hardware for engine, generator and radiator.                                                                                               |                     |                         |                                      |         |
| 97                                             | N/A            | Electrical Cables                                                                 | Check all cable connections for excessive wear & physical damage.                                                                                                           |                     |                         |                                      |         |
| 98                                             | N/A            | Wiring                                                                            | Check all wiring for chaffing, eexcessive wear, condition and physical damage. Install rub guard as needed.                                                                 |                     |                         |                                      |         |
| 99                                             | N/A            | Engine Breathers                                                                  | Confirm eng breather hoses are intact & are open and unobstructed.                                                                                                          |                     |                         |                                      |         |
| 100                                            | N/A            | Vibration Damper                                                                  | Check for dents & leaks.                                                                                                                                                    |                     |                         |                                      |         |
| 101                                            | N/A            | Battery Cables                                                                    | Inspect for corroded cable ends, frayed cables, loose connections and chaffing.                                                                                             |                     |                         |                                      |         |
| 102                                            | N/A            | Batteries                                                                         | Inspect cell water levels & add distilled water as needed. Inspect battery case for damage & leaks. Record specific gravity of individual cells to track battery condition. |                     |                         |                                      |         |
| 103                                            | N/A            | Water Pump                                                                        | Check weep hole in water pump for evidence of leaking.                                                                                                                      |                     |                         |                                      |         |
| 104                                            | N/A            | Air/Coolant Piping                                                                | Check for excessive wear, leaks, loose clamps and fittings.                                                                                                                 |                     |                         |                                      |         |
| 105                                            | N/A            | Crankcase Pressure                                                                | Check and record for future reference.                                                                                                                                      |                     |                         |                                      |         |
|                                                | Detroit Deisel | 2500-Hour/Annual Inspection. This is to be completed with the 500-hour Inspection |                                                                                                                                                                             |                     |                         |                                      |         |
| 106                                            | N/A            | Bearing Grease                                                                    | Grease every 5000 hours or annually, whichever occurs first. Clean off excessive grease.                                                                                    |                     |                         |                                      |         |
| 107                                            | N/A            | Engine fan Hub Grease                                                             | first. Use a quality litium-base, multi-purpose grease. Clean off excessive grease.                                                                                         |                     |                         |                                      |         |
| 108                                            | N/A            | Connection Box                                                                    | wiring, & connections. Check for chaffing, signs of overheating, physical damage, debris, oil & grime, chipped                                                              |                     |                         |                                      |         |
| 109                                            | N/A            | Drive Belts                                                                       | Replace all drive belts, fan and alternator.                                                                                                                                |                     |                         |                                      |         |
| 110                                            | N/A            | Drive Coupling                                                                    | verify installation & torque of all drive disc (95 lb/ft) and flywheel housing bolts (65 lb/ft). Inspect alternator cooling                                                 |                     |                         |                                      |         |
| Quincy QGB-30 Air Compressor Operations Manual |                |                                                                                   |                                                                                                                                                                             |                     |                         |                                      |         |
|                                                |                | Frequency                                                                         | Part Number                                                                                                                                                                 | Date of last change | Was date put on filter? | Was part/Fluid disposed of properly? | Remarks |

|     |                                                      |                                                   |                         |                            |                                |                                         |                       |
|-----|------------------------------------------------------|---------------------------------------------------|-------------------------|----------------------------|--------------------------------|-----------------------------------------|-----------------------|
| 111 | Air Filter                                           | Monthly                                           | 128849E362              |                            |                                |                                         | Pg 37/Parts Man pg 10 |
| 112 | Clean fluid cooler fins                              | Monthly                                           |                         |                            |                                |                                         |                       |
| 113 | Replace Fluid Filter                                 | 6 months                                          | 128598                  |                            |                                |                                         |                       |
| 114 | Inspect control line filters                         | 6 months                                          |                         |                            |                                |                                         |                       |
| 115 | Take Fluid Sample                                    | 6 months                                          | 129216                  |                            |                                |                                         | Pg 57                 |
| 116 | Replace Air/Fluid Separator Elements                 | Annually                                          | 129881-001              |                            |                                |                                         | Pg 36                 |
| 117 | Check all bolts for tightness                        | Annually                                          |                         |                            |                                |                                         |                       |
| 118 | Lubricate Motors                                     | Annually                                          |                         |                            |                                |                                         |                       |
| 119 | Check Safety Shutdown System                         | Annually                                          |                         |                            |                                |                                         |                       |
| 120 | Test Pressure Relief Valve for proper operation      | Annually                                          |                         |                            |                                |                                         |                       |
| 121 | Replace Fluid                                        | 8000 Hours                                        | syn Plus -PN 144046-005 |                            |                                |                                         |                       |
| 122 | V-Belt Drive                                         | Monthly                                           |                         |                            |                                |                                         | Pg 41/Part Man pg 8-9 |
|     | ALMig Compressor                                     | <b>PM- Operations Manual (Service) Chapter 8.</b> |                         |                            |                                |                                         |                       |
|     |                                                      | <b>Frequency</b>                                  | <b>Part Number</b>      | <b>Date of last change</b> | <b>Was date put on filter?</b> | <b>part/fluid disposed of properly?</b> | <b>Remarks</b>        |
| 123 | Check cooling fluid level. Pg 8.3                    | First 100 hours then weekly                       |                         |                            |                                |                                         |                       |
| 124 | Check for leakage. Pg 8.4                            | First 100 hours then weekly                       |                         |                            |                                |                                         |                       |
| 125 | Check compressor temp. Pg 8.5                        | First 100 hours then weekly                       |                         |                            |                                |                                         |                       |
| 126 | Check cooler for fouling. Pg 8.6                     | First 100 hours then weekly                       |                         |                            |                                |                                         |                       |
| 127 | Check for condensate. Pg 8.7                         | First 100 hours then weekly                       |                         |                            |                                |                                         |                       |
| 128 | Replace cooling fluid & cooling fluid filter. Pg 8.8 | First 500 hours then annually.                    |                         |                            |                                |                                         |                       |
| 129 | Replace cooling liquid separator. Pg 8.9             | Annually                                          |                         |                            |                                |                                         |                       |
| 130 | Replace Air Filter. Pg 8.10                          | Annually                                          |                         |                            |                                |                                         |                       |
| 131 | Check Safety valve. Pg 8.11                          | Annually                                          |                         |                            |                                |                                         |                       |
| 132 | Check Drive. Pg 8.12                                 | Annually                                          |                         |                            |                                |                                         |                       |

|     |                                                      |                                                                                                                                                                |                                                   |                     |                         |                                      |         |
|-----|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|---------------------|-------------------------|--------------------------------------|---------|
| 133 | Lubrication of Motor. Page 8.13                      | Annually                                                                                                                                                       |                                                   |                     |                         |                                      |         |
| 134 | General Compressor Servicing                         | Annually                                                                                                                                                       |                                                   |                     |                         |                                      |         |
|     | Drive Coolant System                                 | ATS Drives, Dayton Pump, Ford Ranger Radiator.                                                                                                                 |                                                   |                     |                         |                                      |         |
|     |                                                      | Frequency                                                                                                                                                      | Part Number                                       | Date of last change | Was date put on filter? | Was part/fluid disposed of properly? | Remarks |
| 135 | Check Coolant Level. Fill as needed.                 | Daily then replace Annually                                                                                                                                    | Automobile Coolant                                |                     |                         |                                      |         |
| 136 | Hoses- Check for leakage.                            | Daily and with each service                                                                                                                                    | N/A                                               |                     |                         |                                      |         |
| 137 | Check Cooling fan for dirt build up on shaft, seal.  | Monthly                                                                                                                                                        | Dayton Part Number 2ZWP1                          |                     |                         |                                      |         |
| 138 | Radiator- Check for leakage and blow out dust/debris | Monthly                                                                                                                                                        | O'Reillys Auto Parts- Rad: PN 431384, Cap PN 7516 |                     |                         |                                      |         |
|     |                                                      | <b>Before Leaving</b>                                                                                                                                          |                                                   |                     |                         |                                      |         |
| 139 | N/A                                                  | If locomotive is to be left running - leave isolation switch in start - stop - generator field switch off - brakes applied and handbrake on and wheels chalked |                                                   |                     |                         |                                      |         |
| 140 | N/A                                                  | If locomotive is to be left standing - same as above and pull battery knife switch                                                                             |                                                   |                     |                         |                                      |         |
| 141 | JM                                                   | Remove blue flag and derails and notify crew                                                                                                                   |                                                   |                     |                         |                                      |         |
| 142 | JM                                                   | Let Site Leader ( without fail ) know status of locomotive                                                                                                     |                                                   |                     |                         |                                      |         |
| 143 | JM                                                   | Add coolant when there is not color in water                                                                                                                   |                                                   |                     |                         |                                      |         |