

UNIT # 38

Previous Calendar Day Inspection

Location M101

Each Locomotive Unit and Cab Car shall be inspected in accordance with 49 CFR Part 229.21, 236.586, and 236.587.

Time Complete 10:45 AM/PM

Date 9-22-21

Daily Mechanical Inspection

Time Complete 6:30 AM/PM

Date 9-23-21

Location Ch

QMP/QMI/QP Signature [Redacted]

Occupation Chief

Locomotive Calendar Day Air Brake Test

F-End  Pass  Fail  N/A

End  Pass  Fail  N/A

ECP  Pass  Fail  N/A

Time Complete 7:30 AM/PM

Date 9/24/21

Location CPC

QMP/QMI/QP Signature [Redacted]

Occupation Wright

TRAIN CONTROL SYSTEMS - Daily Departure Test(s) inspected in accordance with 49 CFR Part 236.586 & 236.587.

System	Train Type	Pass	Fail	N/A	Date	Time	Penalty Brake Electric C/O Switch	Penalty Brake Pneumatic C/O Cock
ACSES	<input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E	F-End <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			N/A	N/A
Cab Signal		F-End <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			848027 N/A	N/A
ITCS		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			N/A	N/A
IITS		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			N/A	N/A
I-ETMS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>9/24/21</u>	<u>7:40</u> AM/PM	824766 N/A	N/A

Seal Numbers	Component	Value	Component	Value
<input checked="" type="checkbox"/> B <input checked="" type="checkbox"/> C <input checked="" type="checkbox"/> CC	Overspeed Selector Switch	N/A	Mult. Penalty Brake Device	N/A
<input type="checkbox"/> D <input type="checkbox"/> E	ATC/IITS Transfer Switch	848047 N/A	Speed Control	N/A
	Speedometer OS	847769 N/A	Alertor Electric	848030 N/A
	Event Recorder	806871 N/A	Alertor Pneumatic	N/A
	Amtrak / MNRR	N/A	I-ETMS Emergency Brake	824792 N/A
			I-ETMS Horn	832114 N/A
			Door Bypass	
			F-end	806818 N/A
			R-end	N/A

Time Complete 8:00 AM/PM

Date 9/24/2021

Location CPC

Signature [Redacted]

Occupation Additional

Supervisor/QMP Verifying All Work Completed and Approving Unit for Service

Time Complete 11:15 AM/PM

Date 9-24-21

Location CPC

Signature [Redacted]

Occupation FM2

The Daily Mechanical Inspection, Locomotive Calendar Day Air Brake Test, and Train Control Systems Daily Departure Tests are not considered complete until the supervisor/QMP approves and signs this form. This timestamp will start the clock for the locomotive's mechanical inspections.

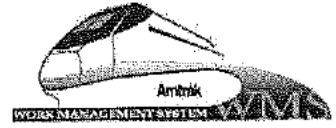
Failure En Route / Equipment Condition				Engineer Initials	Repaired By		
<p>Train Controls Cut Out</p> <input type="checkbox"/> <p><input type="checkbox"/> Temporary Failure Operating Exception</p>							
Locomotive Engineer Signature	Location	Date	Time	Locomotive Engineer Signature	Location	Date	Time
			: AM/PM				: AM/PM
			: AM/PM				: AM/PM
			: AM/PM				: AM/PM
			: AM/PM				: AM/PM
			: AM/PM				: AM/PM

INSTRUCTIONS: Complete form and obtain signatures. Use reverse side for additional comments or details. Use separate form for each unit in consist. Original is to be retained in the locomotive's cab and a Copy is to be retained at the location performing the inspection. NOTE: Locomotive can be on either a 92-day or 184-day periodic inspection schedule. Units on 184-day inspection schedule require a Daily Inspection by a Qualified Mechanical Inspector (QMI) at least once every 33 days. Locomotives on 92-day inspection schedule do not require QMI inspections.





Maintenance Analysis Program  
WMS Work Order: 8478329  
P42/P40 LOCOM DAILY INSPECTION



From Work Order:  
WMS Template ID: 58177

Print Date: 9/22/2021

W/O Type: Daily Inspection	Equip Class:
Maint Type: 24 Hour Inspection	Equip Type: P42-8

P42-8 - ITCS equipped					
Unit: 38	W/O Create Date: 9/21/21 4:07 pm	W/O Due Date: 09/22/2021	W/O Status Date: 9/21/21 4:07 pm	W/O Status By: OBENBER	W/O Status: Open

**TASK # 1 P42/P40 DAILY MECHANICAL INSPECTION**

Cost Center	FIS Loc	Internal Order	W.B.S #	Status By	Facility	Status Date	Status
		362 DIESEL UNIT SERVICIN	M.38	OBENBER		09/21/2021	Active

**Job # 1 P42 DAILY INSPECTION MECH WORK 1**

Signature(s):	Date:	<input checked="" type="checkbox"/>
[Redacted]	9-23-21	Initial/Signature/Check

Procedure:

**DXBDDMECOLD - P42 DAILY INSPT MECH WORK 1**

10.00 CHECK INSPECTION DATES FOR F.R.A. COMPLIANCE AND RECORD THE FOLLOWING: LAST 92-d <u>8-23-21</u> LAST 368-d <u>11-29-19</u> LAST 1840-d <u>12-11-19</u>	E
20.00 CHECK AND ENSURE THAT ALL INFORMATIONAL TAGS ARE IN PLACE: EMERGENCY FUEL SHUTOFF, DANGER HIGH VOLTAGE, AND F.R.A. GLAZING, ETC	E
25.00 Verify ALL Fire extinguishers, First Aid kit, Locomotive Spill Control Kit, and spare Type-F Knuckle on board per procedure DXBD-01-0001. If fire extinguisher passed inspection, ensure the attached service tag is signed and dated within the past 30 days.	E
30.00 Perform Operating Cab Inspection of Visors, Screens, Doors, Mirrors, Washers & Wipers, Windows, and Seats per procedure DXBD-15-0003.	E
40.00 Inspect Carbody Screens per procedure DXBD-01-0005.	E
50.00 Check Air Compressor Oil Level per procedure DXBD-21-0001.	E
60.00 Test Winter Show Shutters per procedure DXBD-22-0006	E
70.00 Check Cooling Water Level per procedure DXBD-23-0002	E
80.00 Check Main Engine Oil Level per procedure DXBD-23-0001.	E
90.00 Ensure Winter-Summer Air Intake Door is Properly Positioned per procedure DXBD-22-0005.	E
100.00 Inspect IITS (ATS) Bracket and Bar per procedure DXBD-11-0001.	E
110.00 Inspect Parking Brake Actuator Lines per procedure DXBD-10-0007.	E
120.00 Inspect Brake Shoes per procedure DXBD-10-0008. CRITICAL CHECKPOINT: If any part of the shoe is at wear indicator, replace the shoe.	E
130.00 Inspect Wheels per procedure DXBD-02-0004.	E
140.00 Inspect Traction Motors and Gear Cases per procedure DXBD-02-0001.	MA
150.00 Inspect Plow Height and Brake Hoses per procedure DXBD-01-0010. CRITICAL CHECKPOINT: Measure the distance from the rail to the bottom of the blade: Maximum 6", Minimum 3.	E
160.00 Daily Coupler Inspection per procedure DXBD-03-0001.	MA
170.00 Inspect Running Gear per procedure DXBD-02-0002. CRITICAL CHECKPOINT: Binding Coils, Tie Rod Bushings, Snubbers	E
180.00 Inspect All Safety Appliances per procedure DXBD-01-0004.	E

**Job # 2 P42 DAILY INSPECTION MECH WORK 2**

Signature(s):	Date:	<input checked="" type="checkbox"/>
[Redacted]	9-24-21	Initial/Signature/Check

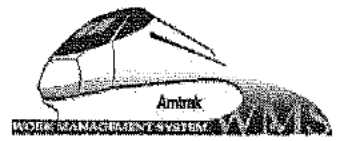
Procedure:



Maintenance Analysis Program

WMS Work Order: 8478329

Unit: 38




Print Date: 9/22/2021









**TASK # 1 P42/P40 DAILY MECHANICAL INSPECTION**

Cost Center	FIS Loc	Internal Order	W.B.S #	Status By	Facility	Status Date	Status
		362 DIESEL UNIT SERVICIN	M.38	OENBER		09/21/2021	Active

**Job # 2 P42 DAILY INSPECTION MECH WORK 2**

Signature(s):  Date: 9-23-21  Initial/Signature/Check

**DXBDDMEHOT - P42 DAILY INSPT MECH WORK 2**

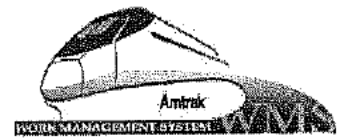
10.00 Main Machinery Space Vibration and Noise Check per procedure DXBD-19-0006.	
20.00 Check for Fuel, Oil, Water and Exhaust Leaks per procedure DXBD-19-0004. CRITICAL CHECKPOINT: Visual inspection for exhaust leaks at: Exhaust manifold & gaskets, Expansion joint, Turbo transition section, Cylinder relief valves, Turbocharger, Muffler	
30.00 Daily, Drain Condensate from Compressor Intercooler, Aftercooler, and Final Filters per procedure DXBD-21-0002.	
40.00 Air Dryer System Check per procedure DXBD-21-0005.	
50.00 Check Operation of Sanding System per procedure DXBD-01-0002.	
60.00 Run Automatic EAB Self Test per procedure DXBD-10-0004.	
70.00 Locomotive Daily Air Brake Departure Test: P42-8 use DXBD-10-0003 CRITICAL CHECKPOINT: i. 3. Place Independent Brake Handle in Full Application position and verify Brake Cylinder Pressure is 72 PSI on the IFD Screen. IV. 1. Verify Brake Pipe Pressure is 110 PSI and Equalizing Reservoir Pressure is 110 +/- 3 PSI. 2. Place Selector Switch in Test position. 3. Verify Brake Pipe Pressure maintains at 110 PSI.  P40-8 use DXBP-10-0003.	
100.00 QUALITY CHECKPOINT: ENSURE MR AIR TANKS ARE DRAINED.	



Maintenance Analysis Program

WMS Work Order: 8478329

Unit: 38



Print Date: 9/22/2021

**TASK # 1 P42/P40 DAILY MECHANICAL INSPECTION**

Cost Center	FIS Loc	Internal Order	W.B.S #	Status By	Facility	Status Date	Status
		362 DIESEL UNIT SERVICIN	M.38	OBERNER		09/21/2021	Active

**Job # 3 P40/42 MECH. SEASONAL DAILY**

Signature(s):

Date:

9/23/21



Initial/Signature/Check

Procedure:

**DXBDSSMD - P42/40/32 SUMMER MECH.CHECK**

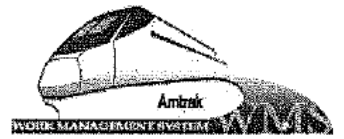
1.00	Inspect all radiator shutters for proper operation per DXBD 22-0006.	✓
2.00	Inspect air compressor for any leaks, drain aftercooler petcock, check oil level, verify Intercoolers/aftercoolers are free of contamination. Pressure wash intercoolers/aftercoolers as needed. Ensure rad cab area is free of debris that could get sucked in per procedure DXBD 21-0002.	✓
3.00	Inspect snow shutters for proper operation per Preventive Maintenance Procedure DXBD-22-0006; no air leaks, vanes are not bent, fully open and close, no gaps in the shutters, close within 2 seconds. Lubricate linkage if necessary. If adjustments are required, reference RBA CTQR Adjustment Procedures. Make adjustments and repairs as required.  Did shutters need adjustment? Yes _____ No <u>Y</u>	✓
4.00	Ensure the winter/summer door on air intake hatch is in the "summer" position; closed.	✓
5.00	Inspect cooling water level and treatment level, add either as necessary, per DXBD 23-0002.	✓
6.00	Inspect the Air Dryer eyes (humidity indicators) and verify they are blue. If they are not blue, troubleshoot as outlined in DXBD-21-0005. Verify the air dryer is cycling properly. Open MR1, this should start the air compressor which causes the air dryer to cycle. Verify the 3 dryer drain valves are free of blockage or debris and all 3 towers exhaust air. The coalescer should have a short blast of air while the 2 dessicant towers alternate a 15 second blow down every minute. Perform CAB Self-test 639 (EAD) and verify the air dryer is cycling.	✓
7.00	Verify both MR1 and MR2 tanks are drained and free of moisture. Make sure the automatic drain valves are set in automatic position and are cycling. Brass stem must be extended. Auto drain valves exhaust approximately every 60 seconds. If not cycling properly, check the wiring or modification schematic for defects. Also verify both MR1 and MR2 drain valves operate under CAB Self-test 633 (RDV). Please reference DXBD-21-0005 as well.	✓
8.00	On Daily Inspection: check 15-Day Inspection date.  Is 15-Day Inspection due or overdue? Yes _____ No <u>Y</u> Perform 15-Day Inspection if due or overdue.	✓
9.00	On 15-Day ONLY: Blow debris off radiators with compressed air until thoroughly clean.	✓



Maintenance Analysis Program

WMS Work Order: 8478329

Unit: 38



Print Date: 9/22/2021

**TASK # 2 P42/P40 DAILY ELECTRICAL INSPECTION**

Cost Center	FIS Loc	Internal Order	W.B.S #	Status By	Facility	Status Date	Status
		382 DIESEL UNIT SERVICIN	M.38	OBERNER		09/21/2021	Active

**Job # 1 P42 DAILY INSPECTION ELECTRICAL WORK 1**

Signature(s):

[Redacted Signature]

Date:

9-23-21



Initial/Signature/Check

Procedure:

**DXBDDELDCOLD - P42 DAILY INSPT ELECT.WORK 1**

10.00 Check Fault History and Analyze and Troubleshoot each fault, note any active fault on MAP 9.	JJ
20.00 Radio Operational Check per procedure DXBD-08-0001.	JJ
30.00 Check for Control Circuit Grounds with Test Light per procedure DXBD-04-0003.	JJ
40.00 Inspect Event Recorder Light. per procedure DXBD-12-0001.	JJ
50.00 Daily, Inspect and Test Onboard Hot Box Detection System and Horn Heater Thermostat per procedure DXBD-09-0008.	JJ
60.00 IFD Wheel Calibration per procedure DXBD-09-0007.	JJ
70.00 Test Interior and Exterior Lighting per procedure DXBD-05-0001.	JJ
80.00 Trainline, Cables and Receptacle Inspection per procedure DXBD-20-0001.	JJ
90.00 LCU and EOT Inspection per procedure DXBD-08-0003. (If Equipped)	N/A
100.00 Supply electrical spares as necessary; (1) Comm Cable, (1) M.U. Cable, (1) HEP Cable, (2) Headlamps, (2) 480V Adapter Cables, (1) Manual Operating Bar per procedure DXBD-01-0001.	JJ



Maintenance Analysis Program

WMS Work Order: 8478329

Unit: 38



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**TASK # 2 P42/P40 DAILY ELECTRICAL INSPECTION**

Cost Center	FIS Loc	Internal Order	W.B.S #	Status By	Facility	Status Date	Status
		362 DIESEL UNIT SERVICIN	M.38	OBENBER		09/21/2021	Active

**Job # 2 P42 DAILY INSPECTION ELECTRICAL WORK 2**

Signature(s):

Date:



Initial/Signature/Check

Procedure:

**DXBDDELHOT - P42 DAILY INSPT ELECT. WORK 2**

10.00 Inspect Cab Signal Bars and Perform Self Test per procedure DXBD-11-0006. CRITICAL CHECKPOINT: 1. 1. Visually inspect Cab Signal Receiver Bars 1. 3. Verify Train Control Pneumatic Cutout Switch is cut in and sealed, and note the Seal's Serial Number on MAP 100 form.	JJ
20.00 Daily, IITS (ATS) Inspection and Test: P42-8 use DXBD-11-0001 P40-8 use DXBP-11-0001.	N/A
25.00 If equipped with PHW 9, perform PHW 9 Aspect Cab Signal and ACSES Test per procedure DXBD-11-0005.	N/A
30.00 Automatic CAB Self Test per procedure DXBD-11-0003. CRITICAL CHECKPOINT: 2.2 Verify: Not providing HEP, No voltage on the 480V BUS, Control Air is available 2.3 Self-Test	JJ
40.00 Power Test per procedure DXBD-09-0058.	JJ
50.00 Check H.E.P. Line Voltage and Perform Load Test. Verify Operation of HVAC, Heaters, and Refrigerator per procedure DXBD-20-0005.	JJ
60.00 Record the Values Below:  Horse Power [HP] <u>4250</u> 480V HEP TL [V] <u>481</u>	JJ
70.00 Check Electrical Equipment Control Air Pressure per procedure DXBD-21-0004.	JJ
80.00 Cut-Out Valve Seal Inspection per procedure DXBD-21-0036.	JJ
90.00 LDVR Video Inspection per procedure DXBD-12-0013.	JJ
100.00 Perform I-ETMS (PTC) Daily Inspection per procedure DXBD-11-0021.	JJ

**Job # 3 P40/42 ELECT. SEASONAL DAILY**

Signature(s):

Date:



Initial/Signature/Check

Procedure:

**DXBDSSSED - P4240/32 SUMMER ELECT.CHECK**

20.00 Verify Radiator Fan turns on 1/4 speed at 192F water temperature, 1/2 speed at 196F water temperature, and Full speed at 200F. Water temperature should never exceed 200F. Verify the radiator shutters and snow shutters open at 183F water temperature and close at 178F water temperature.	JJ
30.00 Inspect radiators for cleanliness. Reverse fan per procedure DXBD-22-0003 during Electrical hot work until clear air is observed.	JJ
40.00 Verify HVAC operation, per DXBD 20-0005.	JJ
50.00 Visually inspect the (2) Emergency Fuel Cut Off switch boxes (EFCO) to ensure they are weather sealed and not damaged.	JJ
60.00 Inspect CA1 cooling air duct. Verify the CA1 Air Duct is intact and adequately flowing air to the CAB/AUX/EXC/HEP and IFC Panels.	JJ
70.00 Check water cooler (refrigerator) operation. DXBD 20-0005. Verify refrigerator is stocked with water bottle packs.	JJ
80.00 On 15-Day ONLY: Inspect HVAC filter, replace if necessary. Check liquid line sight glass for bubbles if cooling issues are present.	N/A



Maintenance Analysis Program

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Print Date: 9/22/2021

**TASK # 3 P42/P40 DAILY CLEAN, FUEL, SAND & DISPATCH**

Cost Center	FIS Loc	Internal Order	W.B.S #	Status By	Facility	Status Date	Status
		362 DIESEL UNIT SERVICIN	M.38	OBERNER		09/21/2021	Active

**Job # 1 P42 DAILY CLEAN, FUEL & SAND**

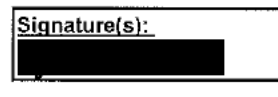
Signature(s):  Date: 9-24-21  Initial/Signature/Check

Procedure:

**DXBDDLAFUEL - P42 DAILY CLEAN, FUEL, SAND**

10.00	Check fuel level, bring to FULL mark. Record final fuel reading: _____ Gallons	
20.00	Check sand level per procedure DXBD-01-0003.	NEPSM
30.00	Dump and recharge toilet per procedure DXBD-13-0001.	
40.00	Clean the toilet and toilet area, remove all trash.	
50.00	Clean engine room and walkways of dirt, oil and debris. Ensure passageways, floors and compartments are free of tripping hazards. Ensure sump is free of fluids and debris.	
60.00	Supply toolbox as necessary with: Red Flag, Hammer, Pipe Wrench, 14mm Wrench, Chisel, Main Reservoir Hose, (2) Brake Pipe Hoses, (6) Glad Hand seals, Pry bar, and (6) Fusees; Ensure Broom with chisel-point Handle is securely stored; per procedure DXBD-01-0001.	
70.00	<b>CLEAN &amp; WASH THE CAB AREA:</b> Wash cab console and dash. Clean windshield, windows and mirrors. Clean Wi-Tronix Camera Lens. Clean and mop cab floor if necessary. Remove all trash.	
80.00	<b>REFILL CAB SUPPLIES:</b> Clean and supply refrigerator with water. (6) Crew kits (1) Large garbage bag Ensure ample supply of toilet paper.	

**Job # 2 P42 DAILY DISPATCH**

Signature(s):  Date: 9-24-21  Initial/Signature/Check

Procedure:

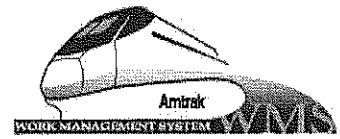
**DXBDDSUP - P42/P32 DAILY DISPATCH**

10.00	<b>QUALITY CHECKPOINT:</b> ENSURE MAP-100 CARD IS APPLIED IN CAB ENSURE BLUE CARD IS IN CAB AND VALID	Bm
20.00	<b>SUPERVISOR:</b>  CHECK WMS FOR OPEN WORK ORDERS THAT ARE EITHER INCIDENT OR CORRECTIVE; ENSURE NECESSARY REPAIRS ARE MADE AND THOSE WORK ORDERS ARE CLOSED. ENSURE THAT ALL WORK IS COMPLETED AND THAT ALL MAP FORMS ARE SIGNED OFF (per SMP#: 28005), ATTACH INSPECTION SHEETS.	Dm





Maintenance Analysis Program  
WMS Work Order: 8478329  
Unit: 38



Print Date: 9/22/2021

**Non-Serial Components**

- 6 / Part / 2656883300 / Carbody / Hatch, Engine Air Filter Box / / Roof
- 2 / Part / 2656886562 / Truck/WheelSet/Suspension / Wheelset, Loco W/O Disc / BD62220 12267/14781
- 4 / Part / 2656886562 / Truck/WheelSet/Suspension / Wheelset, Loco W/O Disc / BN83718 10707/10741
- 3 / Part / 2656886562 / Truck/WheelSet/Suspension / Wheelset, Loco W/O Disc / BJ80318 23726/23776
- 7 / Part / 2656801036 / Carbody / Hatch, Equipment Blower Module / / Roof
- 5 / Part / 2656805671 / Carbody / Hatch, Radiator Module / / Roof
- 1 / Part / 2656886562 / Truck/WheelSet/Suspension / Wheelset, Loco W/O Disc / BG61721 4769/4654 /

**Serial Components**

- AMT10110TR - z - Component / z-Truck / Part / 2656800888 / Truck/WheelSet/Suspension / Truck Assembly / X170 / F-Truck
- AMT2038TR - z - Component / z-Truck / Part / 2656800889 / Truck/WheelSet/Suspension / Truck Assembly / B3881/553 / R-Truck
- AMT34236 - z - Component / z-TM Combo / Part / 2656884002 / Truck/WheelSet/Suspension / Traction Motor Combo / 19ELVEE00040082 / TM Combo #2
- AMT13091 - z - Component / z-TM Combo / Part / 2656884002 / Truck/WheelSet/Suspension / Traction Motor Combo / 17JLV01081257 / TM Combo #3
- AMT2333 - z - Component / z-TM Combo / Part / 2656884002 / Truck/WheelSet/Suspension / Traction Motor Combo / 20DLVEE97030751 / TM Combo #1
- AMT2798 - z - Component / z-TM Combo / Part / 2656884002 / Truck/WheelSet/Suspension / Traction Motor Combo / 18KLVVEE01010027 / TM Combo #4

**Work Order Notes**

WO # Task # Job # NOTES

Last Update ID Create Date

WO Note:  
Task Note:  
Job Note:

Note is from Warranty Claim Tab

Remarks:  
Remarks:  
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