TOWHAUL UNIT HEALTH AUDIT

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Disclaimers

Mine Information

Name of evaluator:_____ Date:_____

Mine Name:_____ Mine Location:_____

TowHaul Unit Serial #:_____ _____

NOTICE

Please photograph the Prime Mover and Lowboy according to the instructions and visuals below. In most cases, the visuals show only one side of the Truck or Lowboy, but both sides are generally needed.

The following is intended to be a guide of the minimum areas to be photographed. Any additional points of interest that are observed on site should also be documented, including, but not limited to:

- -Any Repairs
- -Any Modifications

More photos are always better than fewer. If possible, please document location of any detail photos that might not be obvious.

Last Updated: 06/05/25

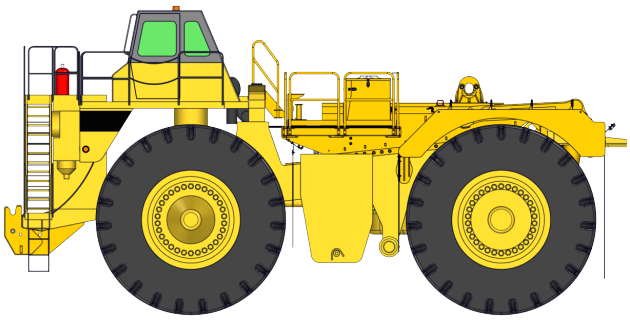
GENERAL IMAGES

NOTICE

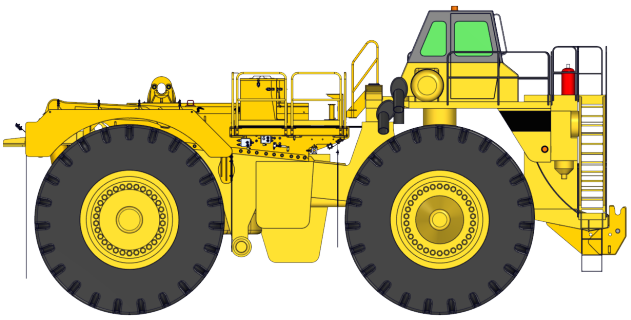
Please provide photographs of the Prime Mover according to the visuals below. Ensure these images are of good quality and taken at perpendicular angles to the truck.

Please provide full images of the Lowboy as well.

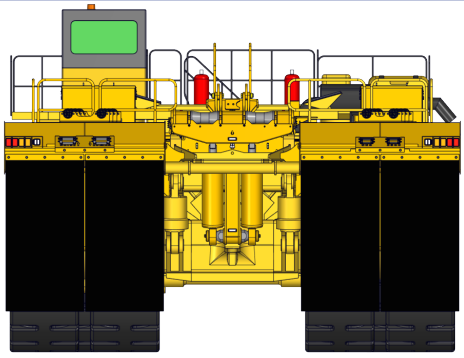
Driver Side View



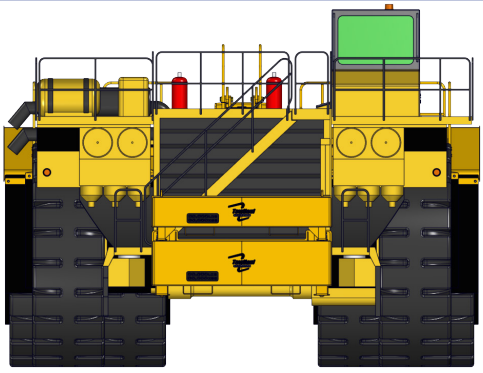
Curb Side View



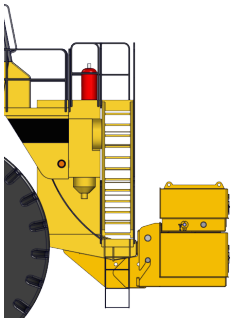
Rear View



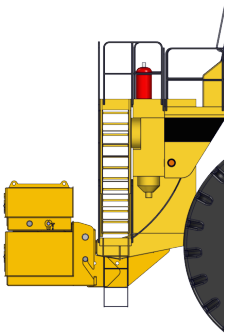
Front View



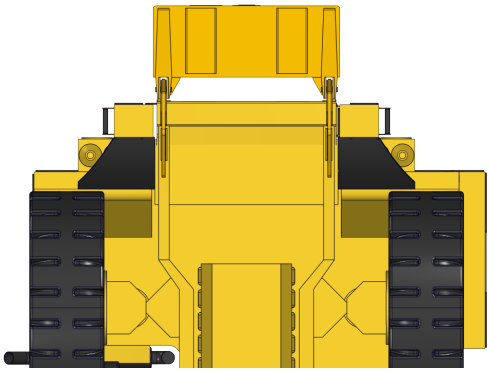
Curb Side Bumper Detail View



Driver Side Bumper Detail View



Front Bumper Under View



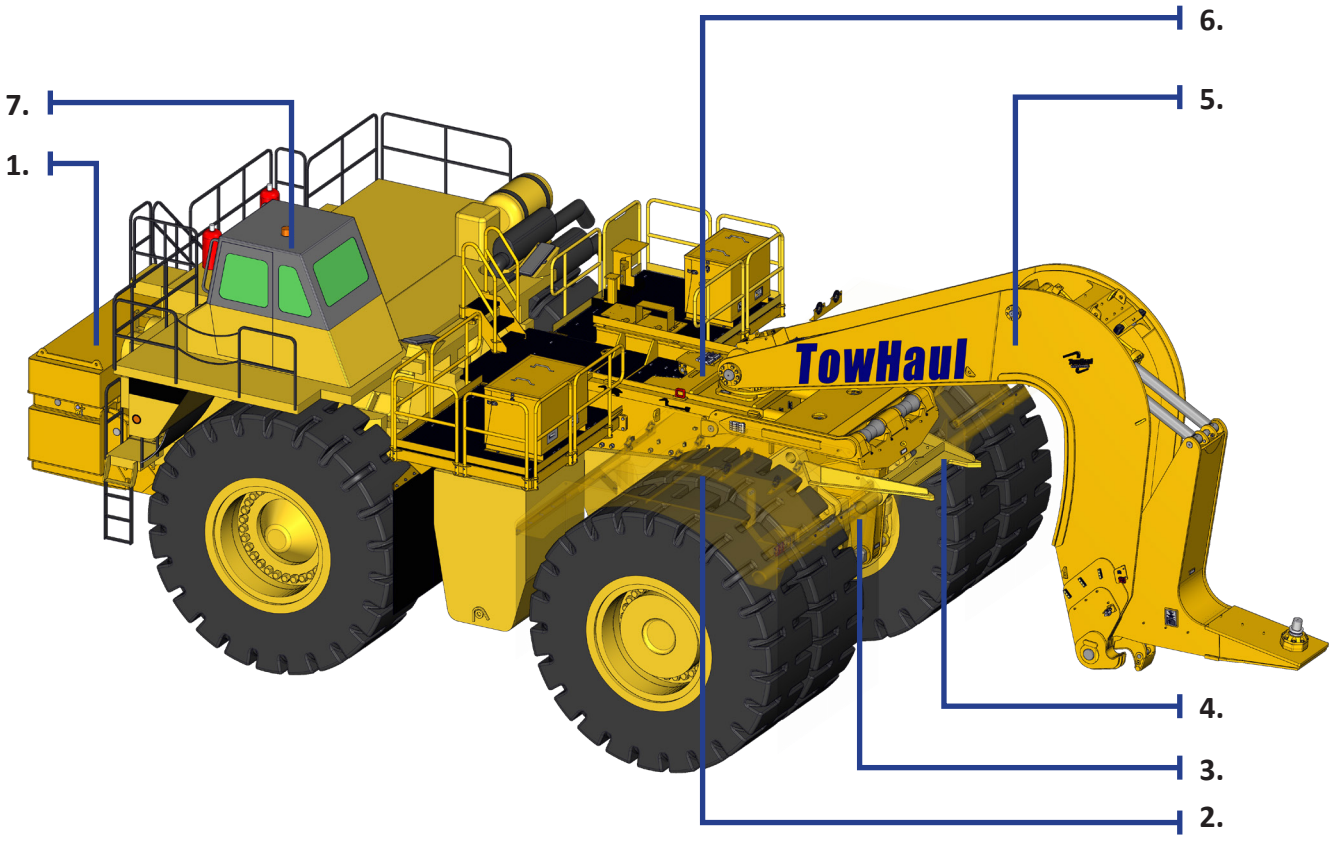
PRIME MOVER INSPECTION

The Prime Mover Inspection will be broken into the following assemblies:

1. **Counterweights**
2. **Prime Mover Fenders**
3. **Lower Lug**
4. **Guide Frame**
5. **Gooseneck**
6. **Subframe**
7. **Cab**

NOTICE

Images throughout this document may not represent the exact unit purchased and may show options that are not present on every unit.

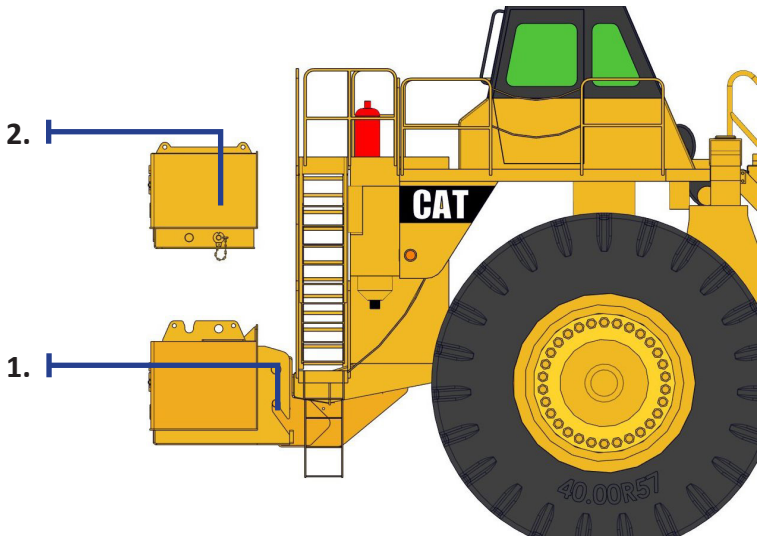


Is anything currently not functioning correctly? (Please list and describe)

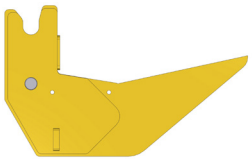
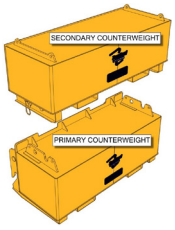
Counterweights

Inspect:

1. **Counterweight Lugs**
2. **Counterweights**



Inspect:

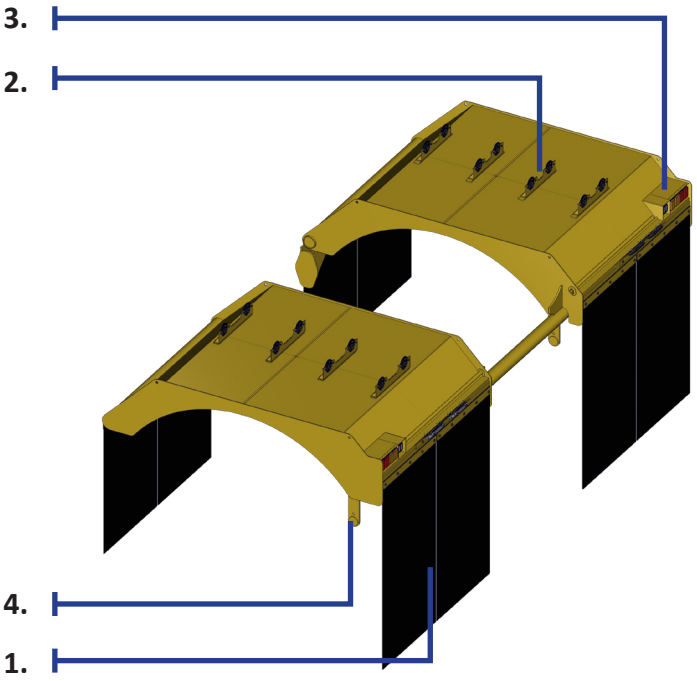
1. **Counterweight Lugs**	
☐ Inspect the welds and condition ☐ Stops (are they in place?)	
2. Counterweights	
☐ Locking pins are in place, if equipped, and in working condition ☐ Damage?	

NOTES:

Prime Mover Fenders

Inspect:

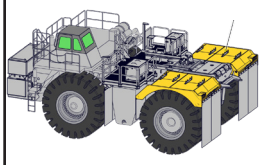
1. **Mud Flap**
2. **Roller brackets**
3. **Signal Lights and light box**
4. **Rock Kickers**



Inspect:

1. **Fenders**

- ☐ Damage to the structure (bent from contact with the Gooseneck, tire chains, etc.)
- ☐ Welded connections (front fender mount, fender pipe, gusset)
- ☐ Mud Flap condition (missing, torn, missing bolts)
- ☐ Roller brackets (broken or missing)
- ☐ Signal Lights and light box (do they function properly, broken or burned out, missing?)
- ☐ Rock Kickers (are they present, bent?)

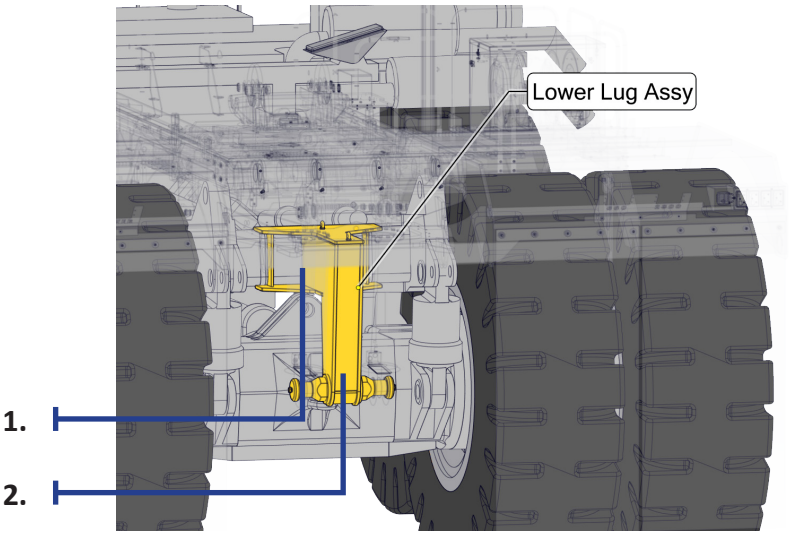


NOTES:

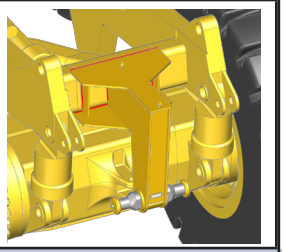
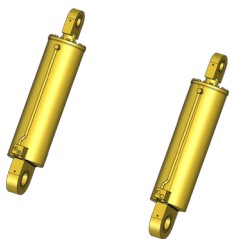
Lower Lug

Inspect:

1. **Lower Lug**
2. **Apron Cylinders**



Inspect:

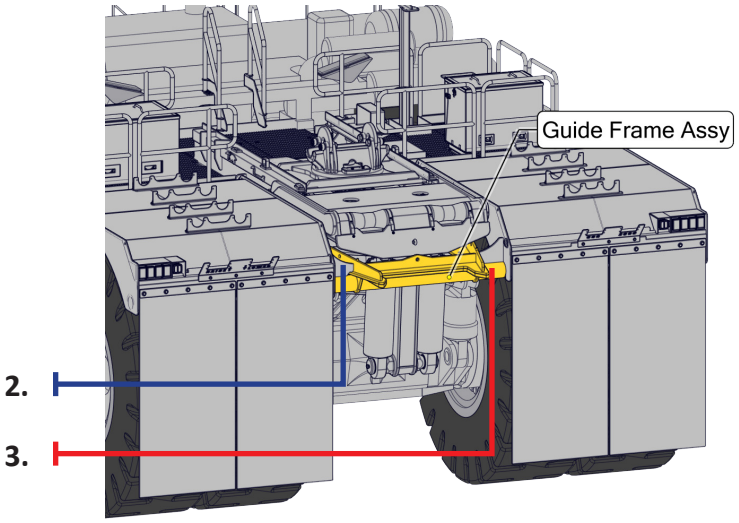
1. **Lower Lug**	
☐ Check the welds to the H-Tube and the structure for cracking ☐ Inspect the Lower Lug Shaft for cracks	
2. Apron Cylinders	
☐ Look for hydraulic leaks ☐ Lower Cylinder caps and bolts are in place and tight ☐ Upper Cylinder Pins, keepers, and lock bolts are in place and tight ☐ Adequate grease (both ends of the cylinders)	

NOTES:

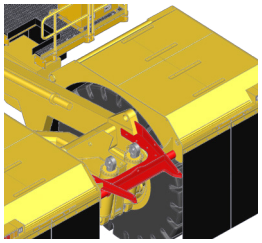
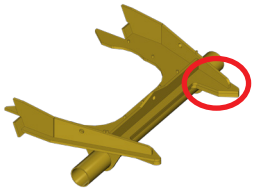
Guide Frame

Inspect:

1. **Bed Lug/Frame**
2. **Guide Ears**
3. **Fender Pipe Tube**



Inspect:

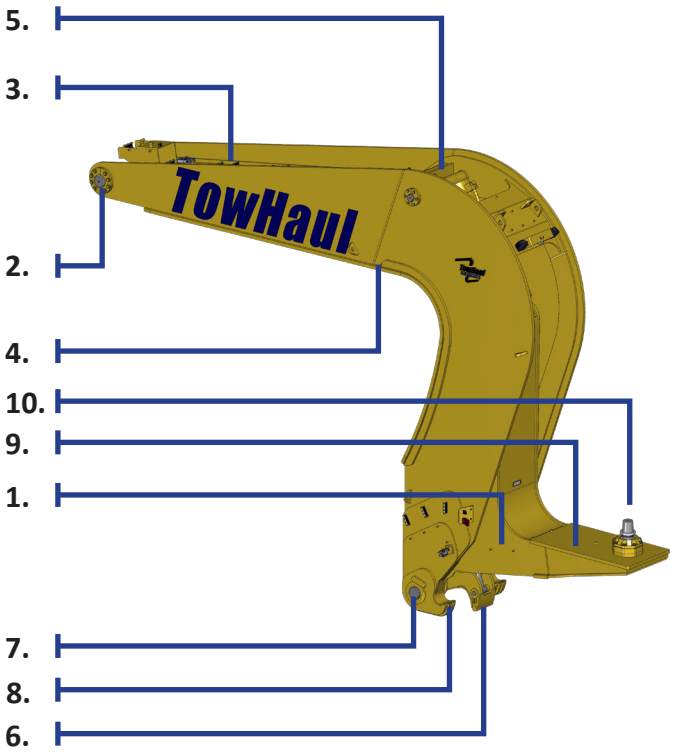
1.	**Bed Lug/Frame**	
☐	Check the welds to the truck's frame and the structure for cracking.	
2.	**Guide Ears**	
☐	Check damage or wear to the guide ears	
3.	**Fender Pipe Tube**	
☐	Damage to the fender pipe tube?	

NOTES:

Gooseneck

Inspect:

1. **Serial Plate**
2. **Gooseneck Side Plates and Flanges**
3. **Main Lift Cylinders**
4. **Grab Hook and Cylinder**
5. **Toe Shaft**
6. **Gooseneck Pickup Hooks**
7. **Toe**
8. **Trunnion Pin**
9. **Wiring and Air Connections Front and Rear**
10. **Cameras**
11. **Gooseneck Webs**
12. **Turntable Shaft**



Inspect:

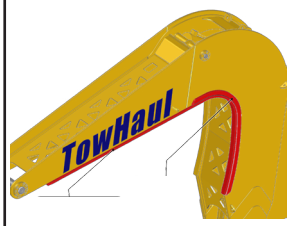
1. Serial Plate

☐ Provide a picture

2. Gooseneck Side Plates and Flanges

☐ Look for cracks at the end of the flanges

☐ Look for cracks around the doublers on the side plates and flanges



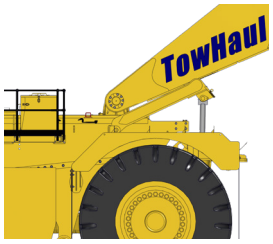
3. Main Lift Cylinders

☐ Look for oil leaks on hose fittings and the cylinders themselves

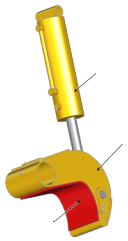
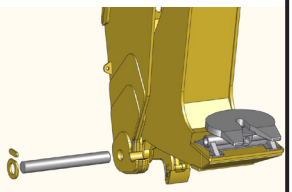
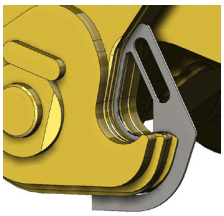
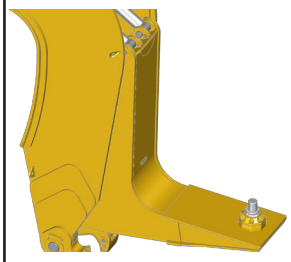
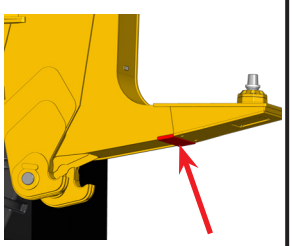
☐ Pins and shafts missing keepers and/or bolts

☐ Cylinder head bolts in place

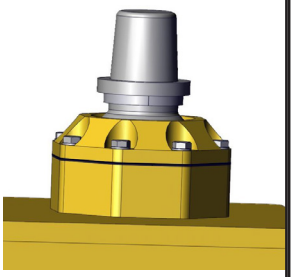
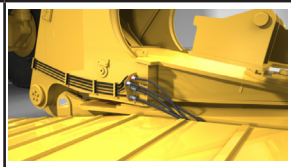
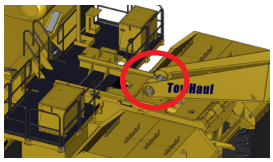
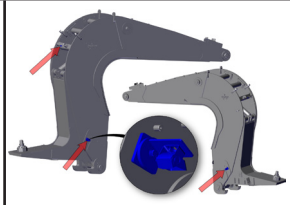
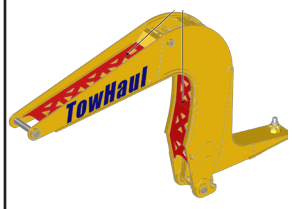
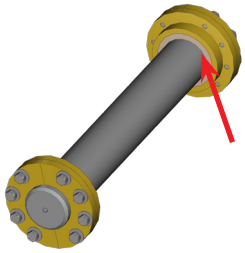
☐ Adequate grease



NOTES:

Inspect:	
4. Grab Hook and Cylinder	
☐ Wear on the hooking surface (Minimum 1/8” material left) ☐ Cracked welds, holes in the hooking surface ☐ Cylinder pins, keepers, and bolts are in place ☐ Oil leaks on the cylinder and fittings ☐ Adequate grease	
5. Toe Shaft	
☐ Retainers are in place ☐ Bent Shaft ☐ Adequate grease	
6. Gooseneck Pickup Hooks	
☐ Half Shells are present and in good condition ☐ Wear on the bottom, tip of the hooks, and hook surface (use Hook Gauges)	
7. Toe	
☐ Main Lift cylinder rod end pins, retainers, and bolts are in place ☐ Check for cracked welds on pin lugs on top of the toe ☐ Check for cracked welds on the web plates front and back ☐ Check bottom plate welds, bent, or deformed plate ☐ Toe Bearing Pad thickness (how much) look for weld cracks around the pad ☐ Check Toe Extension welds, bottom plate ☐ Trunnion Pin inspection cover is in place	 

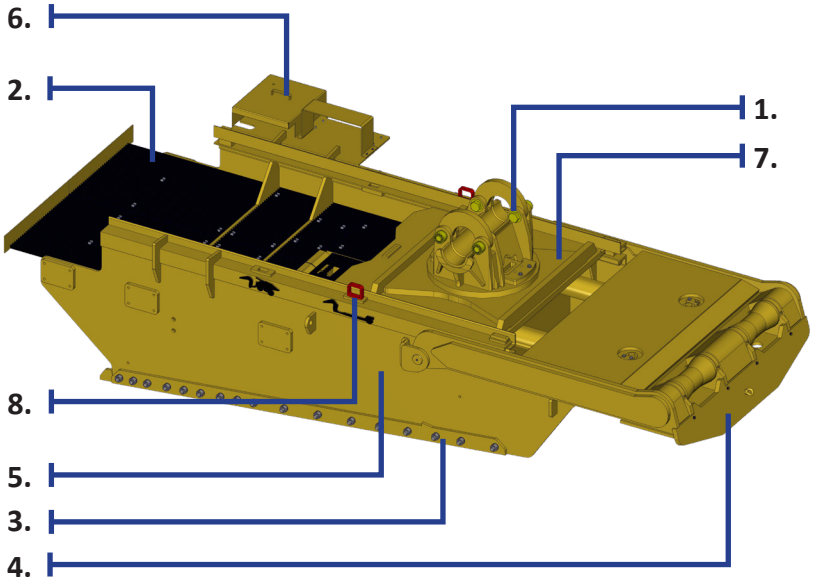
NOTES:

Inspect:		NOTES:
8. **Trunnion Pin**		
☐ All bolts are present and tight ☐ Check for cracks in the pin cap and socket ☐ Pin collar is in place and in good condition ☐ Trunnion pin surface is in good condition no burs, dents, or wear marks ☐ Is the pin too loose in the socket (remove shims) ☐ Adequate grease		
9. **Wiring and Air Connections Front and Rear**		
☐ Look for damage ☐ Are they factory?	 	
10. **Cameras**		
☐ Are they in place and functioning?		
11. **Gooseneck Webs**		
☐ Cracks in the welds at the ends of the webs? ☐ Cylinder Box welds ☐ Any bending or deformation		
12. **Turntable Shaft**		
☐ Gap between the shaft and the bushing is less than 1/4” ☐ Keeper Bolts are all in place ☐ Bushing condition ☐ Adequate grease		

Subframe

Inspect:

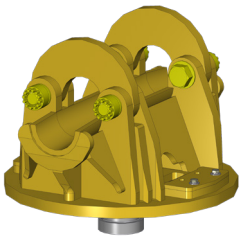
1. **Turntable**
2. **Slide Plate**
3. **Subframe Bolt Bars**
4. **Apron**
5. **Control Valve, Relief Manifolds, Bulkhead Fittings, Cable Trays, and Hoses**
6. **PLUS+1 Enclosure**
7. **Walkways**
8. **Bayonet Pins**



Inspect:

1. Turntable

- ☐ Super nuts and bolts present and tight
- ☐ Look for cracks in the welds around the saddle plates and gussets, welds around corners of trough
- ☐ Measure and record gap between the turntable and the slide plate base plate
- ☐ Locks in place and bolted
- ☐ Are the shims in place on the turntable or all installed? How many are installed?
- ☐ Over Arms visible damage/ deformation/bending.
- ☐ Adequate grease around Base Plate

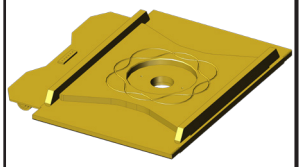


NOTES:

Inspect:

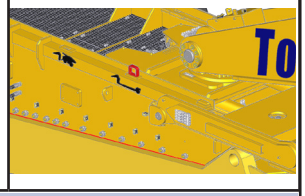
2. Slide Plate

- ☐ Check for cracked welds around the stiffeners and base plate
- ☐ Wear on the base plate
  If all the shims have been installed in the Turntable and 1/4” grooves are gone, the Turntable and Base Plate need to be replaced.
- ☐ Stops in place



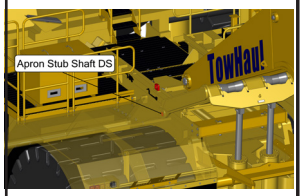
3. Subframe Bolt Bars

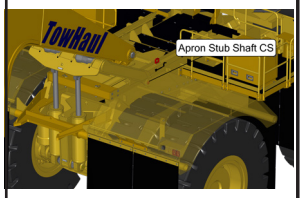
- ☐ All bolts and nuts present and tight
- ☐ Check for cracks in the welds to the truck frame

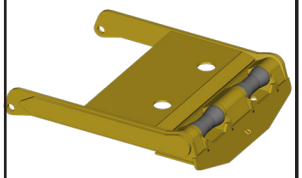


4. Apron

- ☐ Stub Shafts are present, retainers and bolts in place
- ☐ Stub Shaft support plates are in place.
- ☐ Apron Arms straight and not damaged
- ☐ Rollers in good condition and moving freely
- ☐ Apron Limit Switch (is it in place and not tied down)
- ☐ Adequate grease

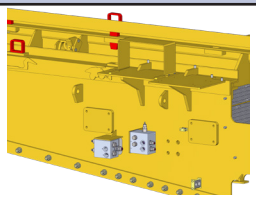




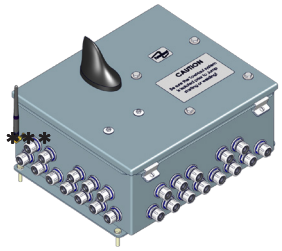
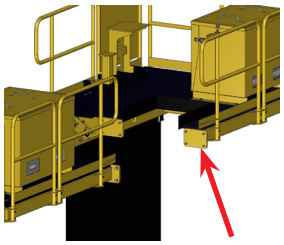
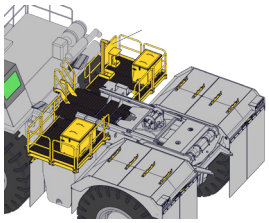
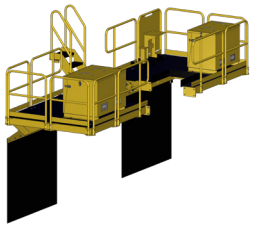
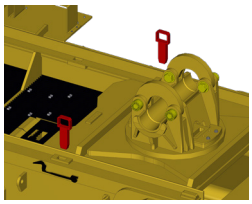


5. Control Valve, Relief Manifolds, Bulkhead Fittings, Cable Tray, and Grating

- ☐ Look for leaks on all connections and hoses
- ☐ Mounting bolts present and tight



NOTES:

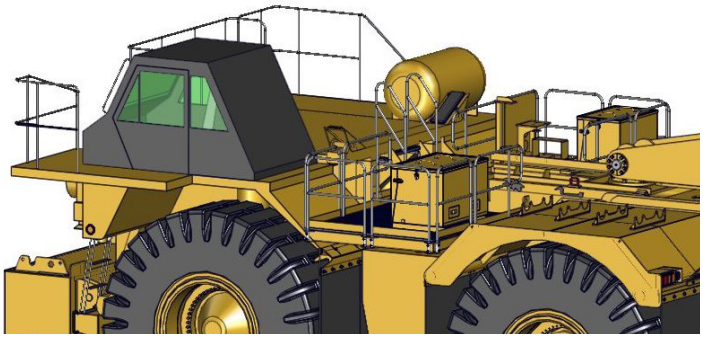
Inspect:	
6. PLUS+ 1 Enclosure	
☐ Open enclosure and inspect connections and overall condition (frayed wires, spliced connections, damaged wiring or cord connectors, water, dirt, mud, clean)	
7. Walkways	
☐ Mounting bolts present and tight ☐ All Grating secured and in place ☐ HP Filter secure, check for leaks, filter indicator wired and in place ☐ Hose Reel cabinets secured to walkway, all lids and doors in place and in good condition, check for oil leaks ☐ Handrail secured in place and in good condition ☐ Accumulator and PBR Manifold in place check for oil leaks, cables are in place, broken pressure Transmitters ☐ Mud flaps and brackets (condition and are all the bolts in place and tight)	  
8. Bayonet Pins	
☐ Both pins are in place	

NOTES:

Cab

Inspect:

1. **PLUS+ 1 Screen**
2. **Camera Screen**
3. **Park Brake and Emergency Brake Handle**
4. **Service Brakes and Retarder**
5. **Work Light Switches**
6. **TowHaul Warning and Safety Stickers**



Inspect:

1. PLUS+ 1 Screen

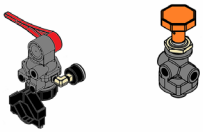
- ☐ Record hours, history (8, history)
- ☐ What is the condition of the screen and the control buttons?
- ☐ Are there any errors on the screen with the unit running?
- ☐ Apron Limit Switch functioning
- ☐ All controls working properly

2. Camera Screen

- ☐ Condition
- ☐ All the cameras are working
- ☐ Cameras showing the right views

3. Park Brake and Emergency Brake Handle

- ☐ Are they functioning and in place?

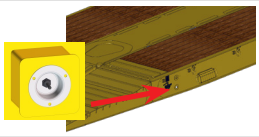


4. Service Brakes and Retarder

- ☐ Are they functioning and reading on the PLUS+1 screen properly?

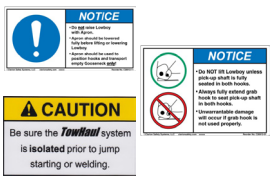
5. Work Light Switches

- ☐ Working and labeled?



6. Warning and Safety Stickers

- ☐ Are they still in place?



NOTES:

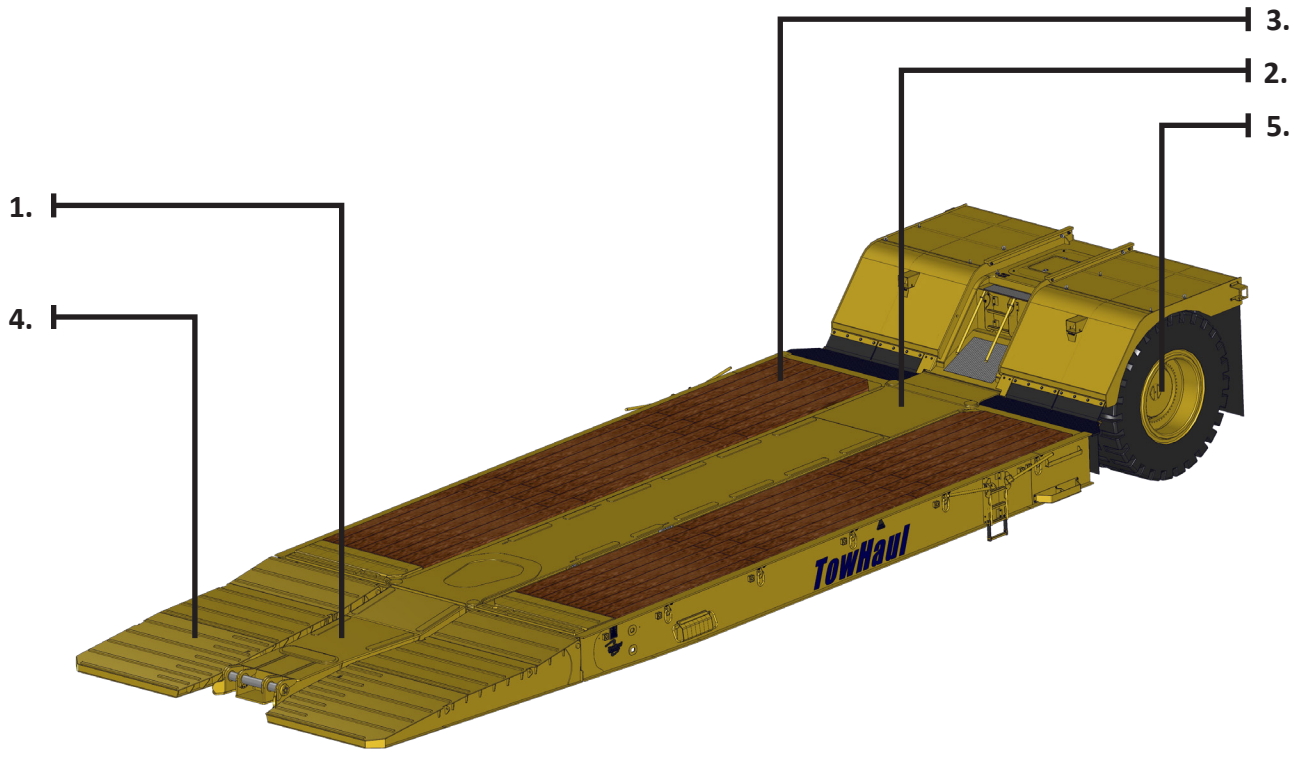
LOWBOY INSPECTION

The Lowboy Inspection will be broken into the following assemblies:

1. **Front End**
2. **Center Section**
3. **Load Wings**
4. **Load Ramps**
5. **Axle Assembly**

NOTICE

Images throughout this document may not represent the exact unit purchased and may show options that are not present on every unit.

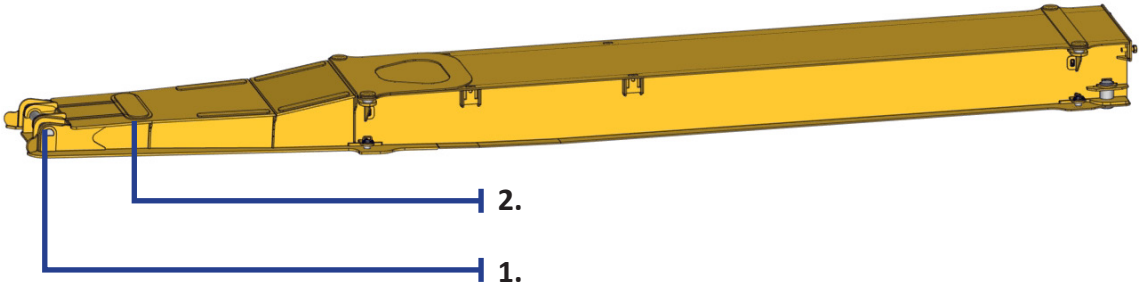


Is anything currently not functioning correctly? (Please list and describe)

Front End

Inspect:

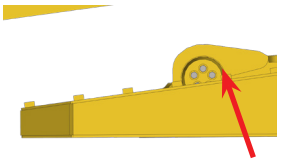
1. **Pickup Shaft**
2. **Bearing Pad**
3. **Systems**

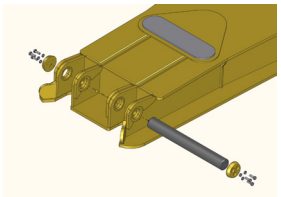


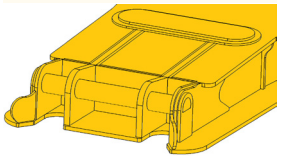
Inspect:

1. Pickup Shaft

- ☐ Gap between shaft and bushing (less than 1/4” is permitted)
- ☐ Wear of shaft (1/2” Allowable where hooks contact shaft.)
- ☐ Bushing condition
  Are they still locked in the Pickup plates, have they rotated?
- ☐ Retaining caps and bolts in place and tight
- ☐ Adequate grease
- ☐ Locking plates and their condition (non-rotating shaft)
- ☐ Cleanliness of the Pickup Shaft area (dirt, rocks, ice and snow)

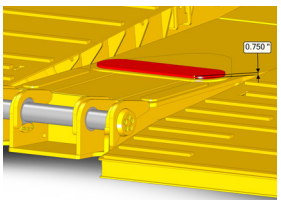






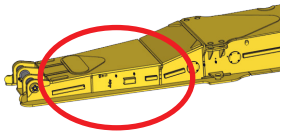
2. Bearing Pad

- ☐ Check thickness of the plate
- ☐ Check for cracked welds around the 2 plates
- ☐ Cleanliness of the bearing surface and the area around it



3. Systems

- ☐ Pigtails for the electrical and air systems (are they factory, condition, stored on the front end or ramp)
- ☐ Bulkhead fittings: air dryer, hose and tubing conditions, Canon plugs and wiring conditions
- ☐ Grease System (inspect grease lines and injectors)

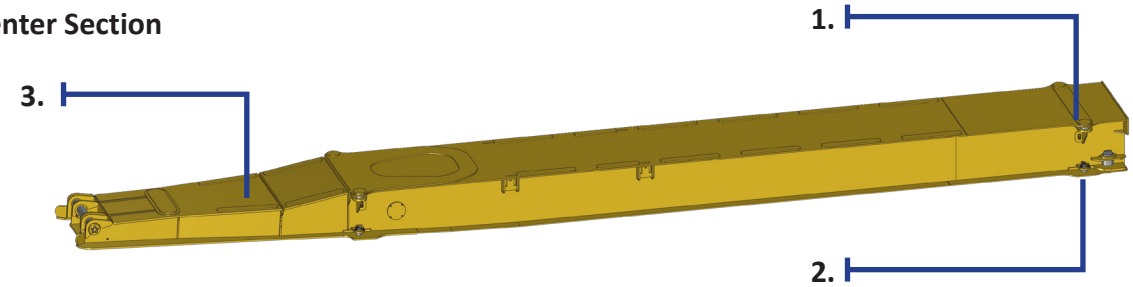


NOTES:

Center Section

Inspect:

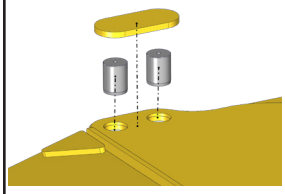
1. **Upper Load Wing Pin Covers**
2. **Lower Load Wing pins**
3. **Front End**
4. **Front and Rear Cross Bars**
5. **Rear of the Center Section**
6. **Systems**



Inspect:

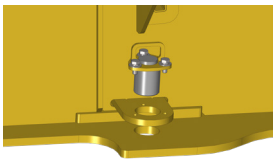
1. Upper Load Wing Pin Covers

- ☐ Inspect welds around pin covers
- ☐ Thickness of the front covers
- ☐ Ensure they are in place



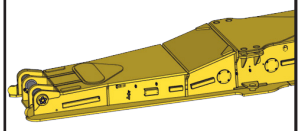
2. Lower Load Wing Pins

- ☐ Ensure they are still there and in place (horizontal or vertical)
- ☐ Retaining bolts are installed and tight (if applicable)

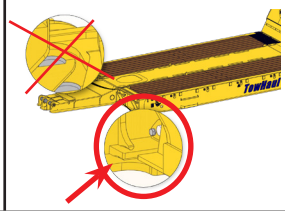
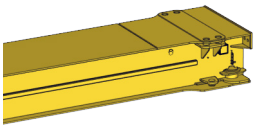
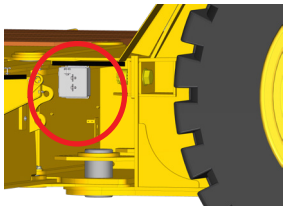


3. Front End

- ☐ Weld across the top is not cracked or worn down from tracked equipment
- ☐ The vertical welds on both sides (check for cracking)
- ☐ Bottom weld (inspect for cracking and excessive wear on the bottom plate)



NOTES:

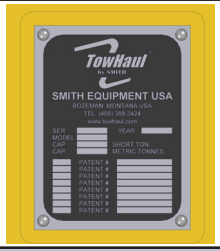
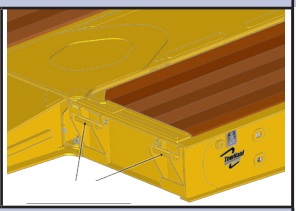
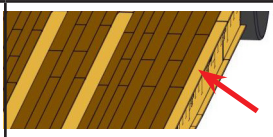
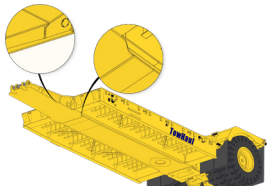
Inspect:		
4.	**Front and Rear Cross Bars**	
☐	Look for cracked welds and separation from the bottom plate	
5.	**Rear Center Section**	
☐	Check for cracked welds around the connection bolts and side plate cracking around the Lower Axle pins and the gussets	
6.	**Systems**	
☐	Electrical and Air System connections are in factory condition?	

NOTES:

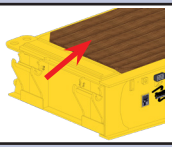
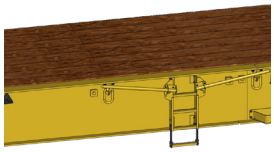
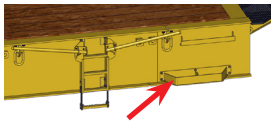
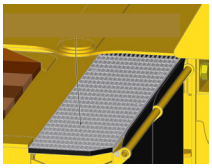
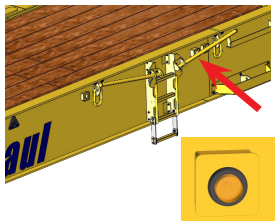
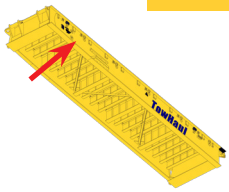
Load Wings

Inspect:

1. **Serial Plate**
2. **Ramp Hooks**
3. **Outer Rails**
4. **Cross Members**
5. **Wood Decking**
6. **Ladders**
7. **D-rings**
8. **Chain trays**
9. **Load Wing Walkway Extension**
10. **Systems**

Inspect:	
1. Serial Plate	
☐ Provide a picture	
2. Ramp Hooks	
☐ Look for cracked welds to the front cross members or pulling out of the front cross member plate	
3. Outer Rails	
☐ Look for signs of berming (bent outer web and flange)	
4. Cross Members	
☐ Inspect welds to the inner and outer rails of the Load Wing ☐ Inspect the beams for twisting and deforming ☐ Inspect the upper and lower gussets on the front and rear cross members for cracked welds	

NOTES:

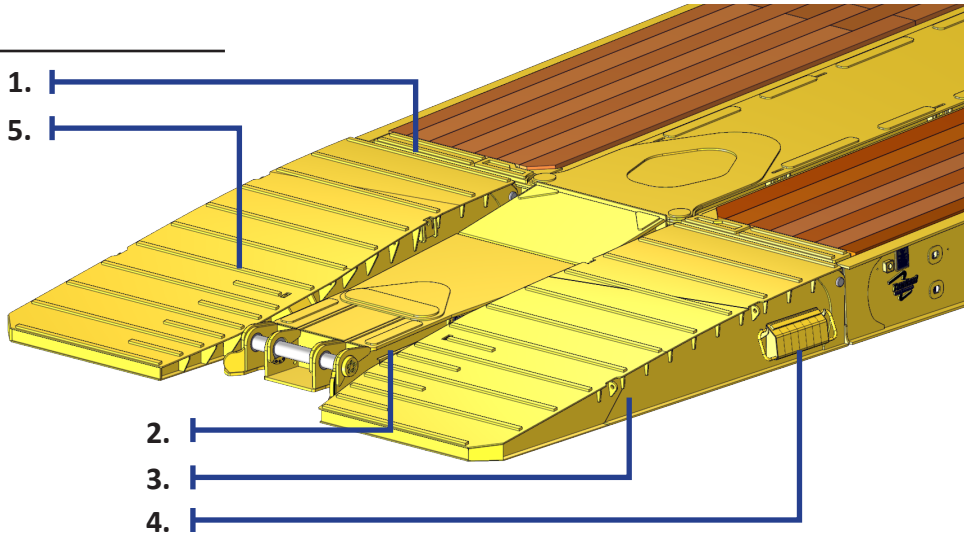
Inspect:		
5.	**Wood Decking**	
☐	Look for holes in the decking, loose boards, excessive wear	
6.	**Ladders**	
☐	Missing?	
☐	Handles are there and in working order	
☐	Missing step?	
7.	**D-rings**	
☐	Condition	
8.	**Chain trays**	
☐	Missing?	
☐	Condition	
9.	**Load Wing Walkway Extension**	
☐	Grating in place and secured	
☐	Brackets secured with bolts and tightened	
☐	Mud flap towel bar installed and secure (if equipped)	
10.	**Systems**	
☐	Clearance Lights all present, undamaged, and working	
☐	Work light switches and lights are working	
☐	*Air System tubing, booster air tank, relay, drain valve hooked up and functioning (if equipped)	
☐	*Auto Lube system working when hooking up to the Prime Mover, Electrical cable connections, grease hose connections, damage (if equipped)	*Located beneath Load Wing, along DS

NOTES:

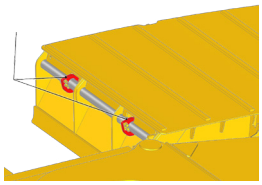
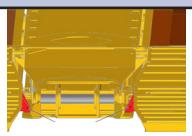
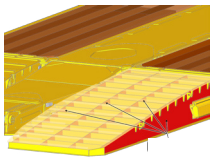
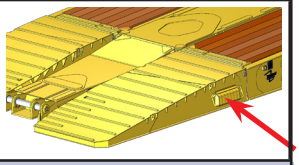
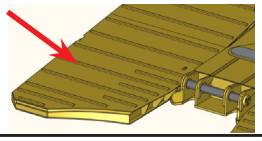
Ramps

Inspect:

1. **Ramp Keepers**
2. **Stops**
3. **Web Plates**
4. **Load Blocks**
5. **Cleats**



Inspect:

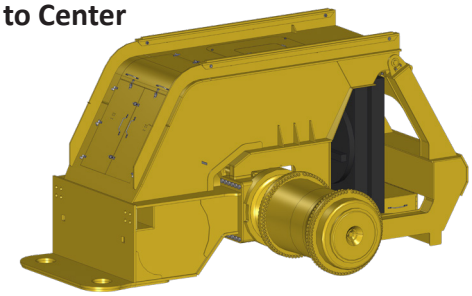
1.	**Ramp Keepers**	
☐	Ensure keepers are installed and secured with bolts and tight	
☐	Pin keepers on older ramp installed and not missing	
2.	**Stops**	
☐	Look for damaged or missing stops	
3.	**Web Plates**	
☐	Weld cracks and cracks in webs and flanges where the bottom front plate meets the bottom flanges.	
4.	**Load Blocks**	
☐	Describe condition	
☐	Storage hooks (on the Ramps or the Load Wings)	
5.	**Cleats**	
☐	Describe condition	

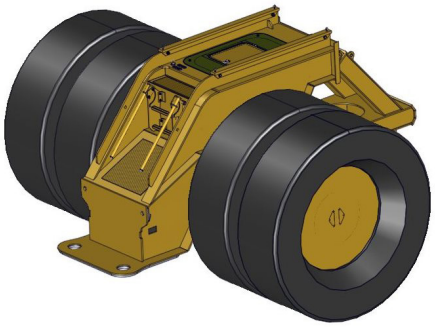
NOTES:

Axle Assembly

Inspect:

1. **Super Nuts and Bolts to Mount to Center Section**
2. **Axle Mounting Bolts**
3. **Wheel Studs**
4. **Push Block**
5. **Fenders**
6. **Cooling and/or Brake System**
7. **Electrical System**
8. **Access Doors into the Bucket Platform**

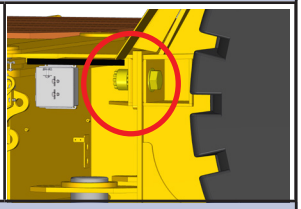




Inspect:

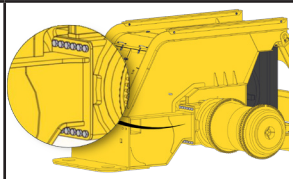
1. Super Nuts and Bolts to Mount to Center Section

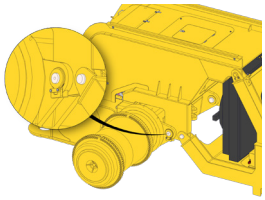
☐ Ensure they are in place and tight



2. Axle Mounting Bolts

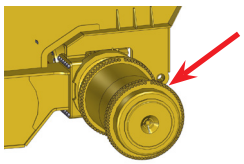
☐ Ensure they are in place and tight





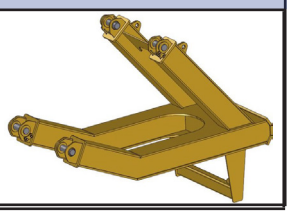
3. Wheel Studs

☐ Ensure they are in place and tight



4. Push Block

☐ Ensure pins, keepers, and hardware are in place

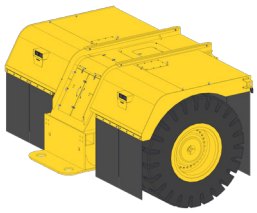


NOTES:

Inspect:

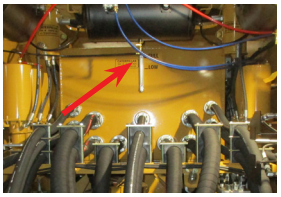
5. Fenders

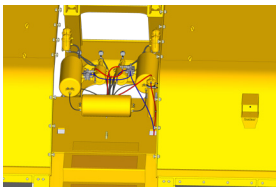
- ☐ Inspect the welds to the Bucket Platform for cracking
- ☐ Inspect the Mud Flaps and hardware
- ☐ Confirm the signal lights and beacons are working

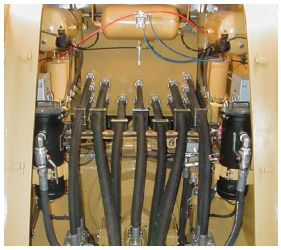


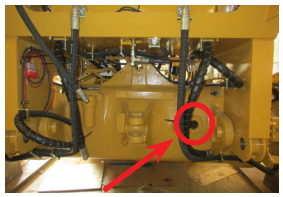
6. Cooling and/or Brake System

- ☐ Check for hydraulic leaks in the system
- ☐ Check that the oil tank is to the full mark on the sight glass on a BCS unit
- ☐ Check that the brake makeup tanks are full on dry drum units (air/hydraulic)
- ☐ Air drains (are they functioning)
- ☐ On electric/hydraulic units check the fluid level on the brake reservoir tank sight glass, it should be full to the accumulator charged line
- ☐ Check the oil level in the axle sight glasses
- ☐ Ensure the cooler is free of mud and debris
- ☐ Check the oil level in the pump drive gear box on the BCS units with the dipstick
- ☐ Ensure the clutch and driveline have been greased and are in good working condition



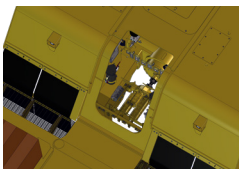






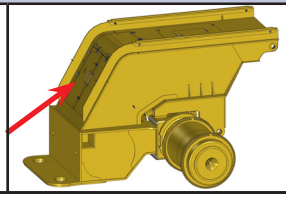
7. Electrical System

- ☐ Check wiring connections and Pressure Transmitters (look for damaged or broken transmitters)



8. Access Doors into the Bucket Platform

- ☐ Condition— bent, functioning, missing



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