



BI016250
A6474X386
November 2012

Maintenance Manual

CL115 Compact Loader

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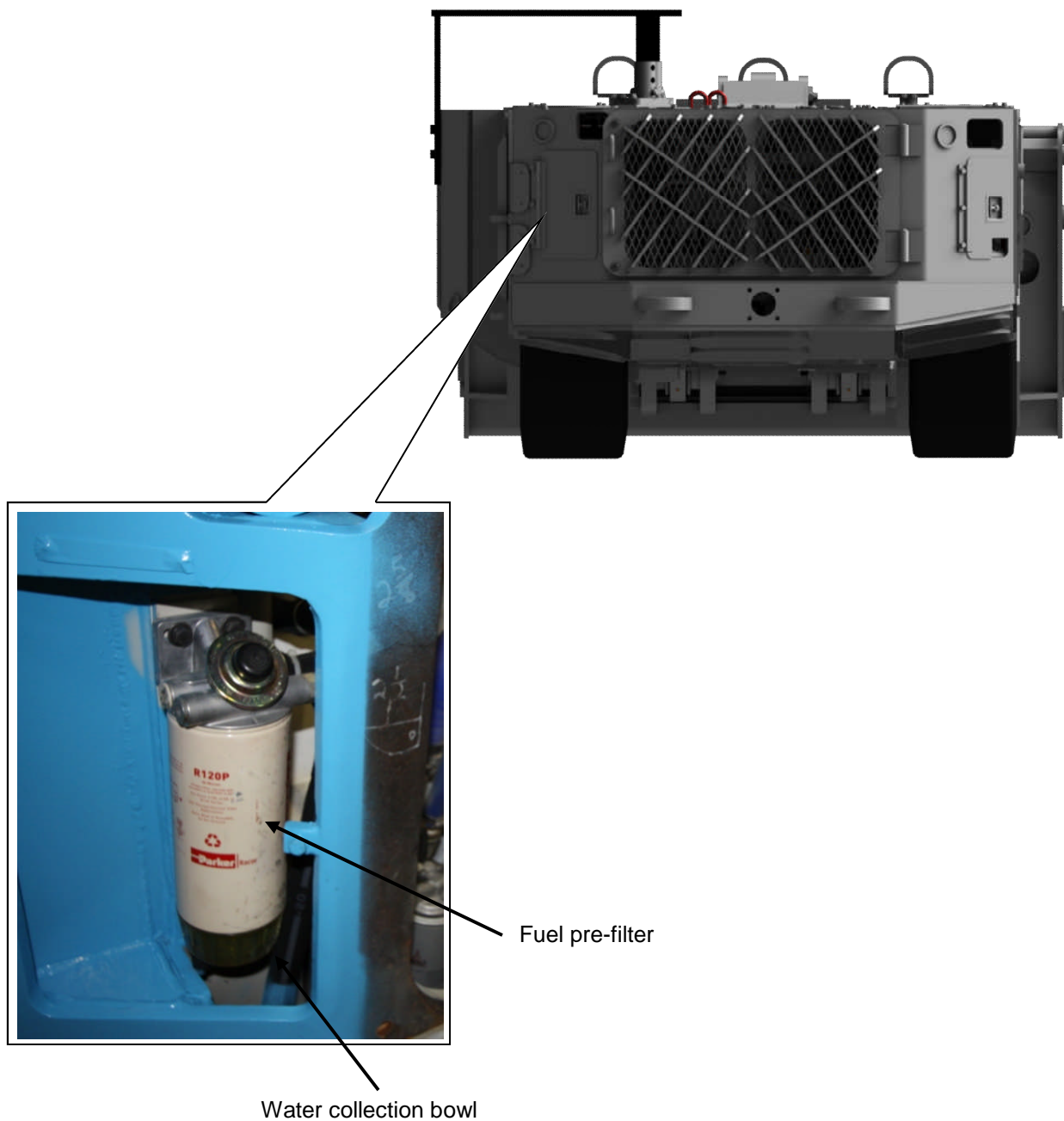
Maintenance Schedule

Table 5: Lubrication and maintenance schedule

| Item | Description | Places | Lubricant | Specification |
|------|----------------------------------------------------------------|---------|----------------------------------------------------------------------------------------|---------------|
| | Pre-shift | | | |
| 1 | Headlights (Inspect) | 4 | | |
| 2 | Reflectors and warning tags | Inspect | | |
| 3 | Fuel level | Check | Low sulfur diesel | |
| 4 | Engine oil level | Check | 10W40 API CF/ 4 | |
| 5 | Engine air cleaner | Check | | |
| 6 | Radiator coolant level | Check | Avia Antifreeze Extra Glysantin G 48 DEA radiator antifreeze Shell GlycoShell | |
| 7 | Transmission oil level | Check | SAE 20W CAT TO-4 Allison C4 | |
| 8 | Soot Filter (Replace as necessary) | Inspect | | |
| 9 | Fuel pre-filter (drain) | 1 | | |
| | Daily | | | |
| 10 | Air tank | Drain | | |
| 11 | Center section pivots | 2 | | Spec. 100-3 |
| 12 | Steering cylinders (rod and base end) | 3 | | Spec. 100-3 |
| 13 | Oscillating bearing | 9 | | Spec. 100-3 |
| 14 | Lift cylinder | 2 | | Spec. 100-3 |
| 15 | Tilt cylinders | 3 | | Spec. 100-3 |
| 16 | Ejector cylinders | 4 | | Spec. 100-3 |
| 17 | Drive shaft bearing carrier | 1 | | Spec. 100-3 |
| 18 | Lift frame | 4 | | Spec. 100-3 |
| 19 | Fasteners (Nuts, bolts and screws) | Inspect | | |
| 20 | Electrical cables, conduits and glands | Inspect | | |
| 21 | Hydraulic hoses and connections | Inspect | | |
| 22 | Tires (Inspect) | 4 | | |
| 23 | Hydraulic oil level (Check) | 1 | | Spec. 100-12 |
| | Weekly | | | |
| 24 | Steering cylinder pins | Inspect | | |
| 25 | Center section pins and nuts | Inspect | | |
| 26 | Tire-wheel mounting bolts | Inspect | | |
| 27 | Engine, converter, and transmission Mounting bolts | Inspect | | |
| 28 | Front drive line | 2 | | Spec. 100-3 |
| 29 | Rear drive line | 2 | | Spec. 100-3 |
| 30 | Middle drive line | 2 | | Spec. 100-3 |
| 31 | Converter drive line | 4 | | Spec. 100-3 |
| 32 | Axle mounting bolts | Inspect | | |
| 33 | Oscillating bearing | Inspect | | |
| 34 | Fire suppression system | Inspect | | |
| 35 | Pressure filter (Main) (Inspect/change as required) | 1 | | |
| 36 | Return filter (Inspect/change as required) | 1 | | |
| 37 | Auxiliary pump pressure filter (Inspect/change as required) | 1 | | |
| 38 | Axle oil level (Check) | 2 | Hypoid gear oil SAE 90W | |

Fuel Pre-Filter

Drain the water collected in the bowl of the fuel pre-filter (Fig. 9) at the beginning of each shift.

Fig. 9: Fuel pre-filter

Maintenance Instructions

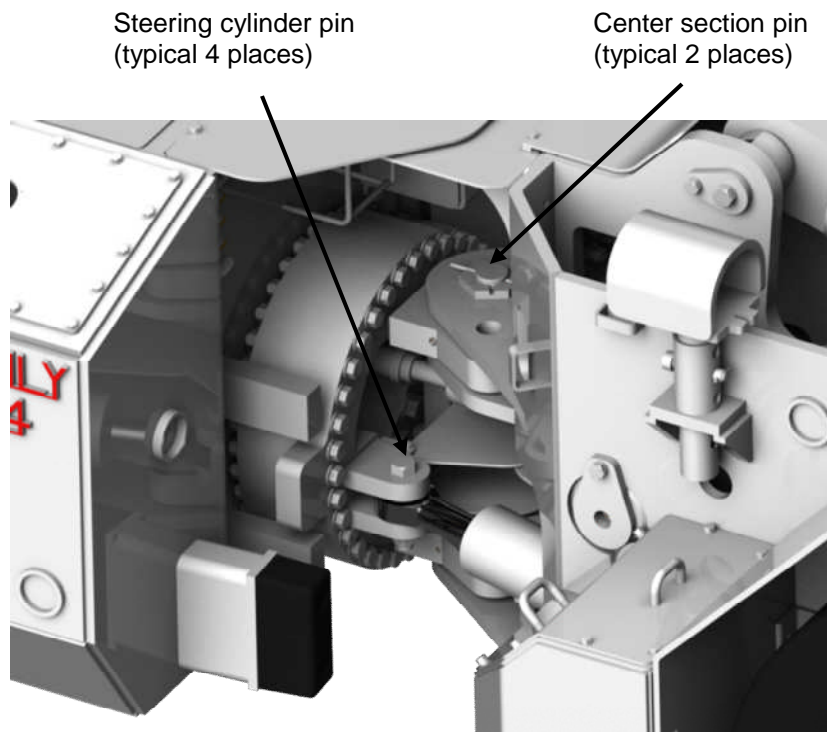
Steering Cylinder Pins

Inspect the steering cylinder pins and nuts for looseness or wear (Fig. 17). Tighten (1480 - 1500 ft. lbs.) where necessary and replace any worn parts.

Center Section Pins

Inspect the center section pins and nuts for looseness or wear (Fig. 17). Tighten (680 - 720 ft. lbs.) where necessary and replace any worn parts.

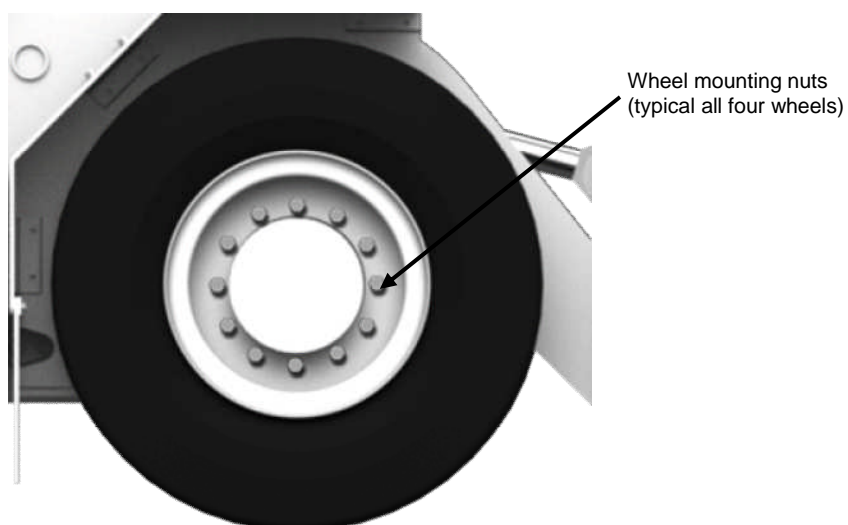
Fig. 17: Steering cylinder pins and center section pins and nuts



Wheel Mounting Nuts

Check the wheel mounting nuts (Fig. 18). The mounting nuts should be torqued to 217 ft-lbs lubricated. Use Loctite 242 on wheel mounting bolts.

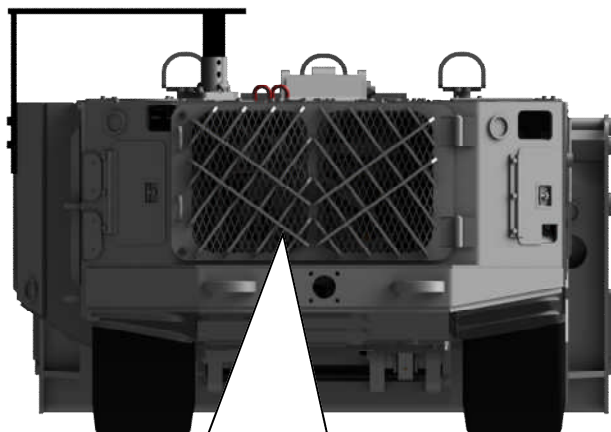
Fig. 18: Wheel mounting nuts



Maintenance Instructions**Air/water separator
(demister)**

The compressed air/water separator (demister) (Fig. 27) should be drained weekly.

Fig. 27: Air/water separator (demister)



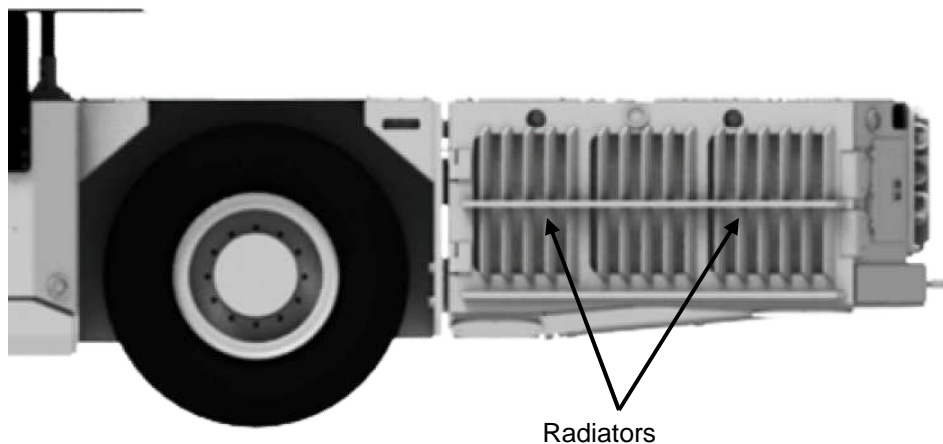
Air/water separator
(demister)

Radiator Cleaning

To clean the radiators (Fig. 34):

1. Place a cleaning bath under the radiators.
2. Remove the service plate.
3. Blow out the heat exchanger with compressed air from the front and then from the back. Be careful not to damage the cooling fins.
4. Wash out loosened dirt with a hose.
5. Spray the heat exchanger with a commercial cold cleaning agent and let stand for about 10 minutes.
6. First spray clean with a water jet from the front and then from the back. Do not directly spray sensitive engine components (generator, cables, electronic components, fan drive, etc.) with a water jet .
7. Remove oil and grease residues with a steam or hot water jet set at a gentle setting.
8. Refit the service plate and run the engine up to normal operating temperature to evaporate any remaining water.

Fig. 34: Radiators



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