

# Instructions Manual

**ICP275-EN1.pdf**  
**Operating & Maintenance**

**Rubber wheel roller**  
**CP275**

**Diesel engine**  
**Cummins 4BTAA3.9**

**Serial number**  
**10000508x0C002027-**



Created & Printed by China

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***Read the entire manual before starting the machine and before carrying out any maintenance.***



***Replace immediately the instruction manuals if lost, damaged or unreadable.***



***Ensure good ventilation (extraction of air by fan) where the engine is run indoors.***



***Prevent persons from entering or remaining in the danger area, i.e. a distance of at least 7 m (23 ft) in all directions from operating machines. The operator may allow a person to remain in the danger area, but should then observe caution and operate the machine only when the person is visible or has given clear indications of where he or she is.***

### General

This manual contains instructions for machine operation and maintenance.

The machine must be correctly maintained for maximal performance.

The machine should be kept clean so that any leakages, loose bolts and loose connections are discovered at as early a point in time as possible.

Inspect the machine every day, before starting. Inspect the entire machine so that any leakages or other faults are detected.

Check the ground under the machine. Leakages are more easily detected on the ground than on the machine itself.

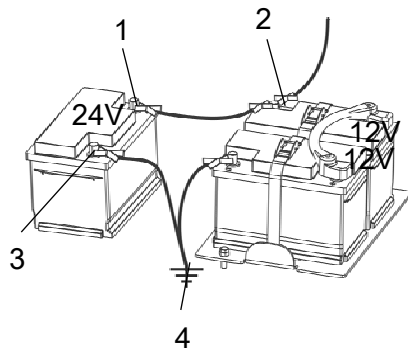
### Jump starting (24V)



**Do not connect the negative cable to the negative terminal on the dead battery. A spark can ignite the oxy-hydrogen gas formed around the battery.**



**Check that the battery used for jump starting has the same voltage as the dead battery.**



**Fig. Jump starting**

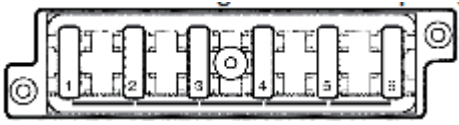
Turn the ignition and all power consuming equipment off. Switch off the engine on the machine which is providing jump start power.

#### **Jump leads must have 24V.**

First connect the plus terminal (1) on the auxiliary battery to the plus terminal (2) on the flat battery, then connect the minus terminal (3) to a suitable earth point (4) on the machine.

Start the engine on the power providing machine. Let it run for a while. Now try to start the other machine. Disconnect the cables in the reverse order.

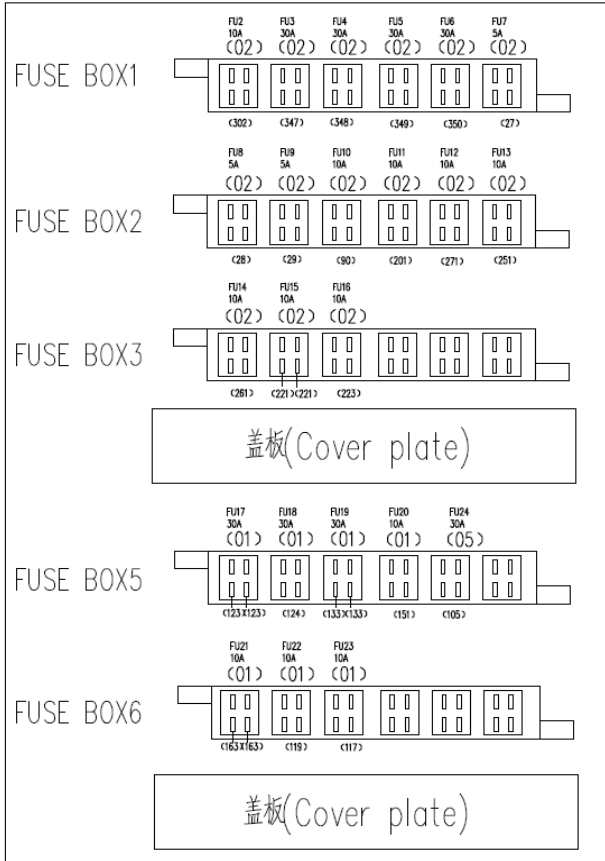




**Fig. Fuse panel**

**Fuse**

The figure shows the position of the fuses. The table in below gives fuse amperage and function.



**FUSE BOX1**

- FU2: Power supply ECU
- FU3: Power supply ECU
- FU4: Power supply ECU
- FU5: Power supply ECU
- FU6: Power supply ECU
- FU7: Pump neutral position

**FUSE BOX2**

- FU8: Sprinkler shift
- FU9: Oil/water sprinkler shift
- FU10: Seat switch/High speed switch
- FU11: Warning lighting
- FU12: Backup alarm
- FU13: Water pump

**FUSE BOX3**

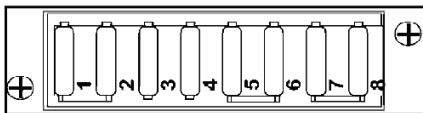
- FU14: Oil pump
- FU15: Instrument
- FU16: Emergency stop

**FUSE BOX5**

- FU17: Driving lighting
- FU18: Cab lighting
- FU19: Working lighting
- FU20: Turn lighting
- FU24: Heat

**FUSE BOX6**

- FU21: Horn
- FU22: Stop lighting
- FU23: Radio FM/AM



**Fig. Cab roof fuse box**

**Cab fuse**

The figure shows the position of the fuses. The table in below gives fuse amperage and function. All fuses are flat pin fuses.

Fuse box F7					
1.	Interior lighting	10A	4.	Heater fan	15A
2.	CD/Radio	10A	5.	Windscreen wiper/washers, front/rear	10A

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Tire load/Kg	Tire inflation pressure/KPa			
	380	510	640	780
	Average contact pressure/KPa			
1550	325.4	427.1	472.8	542.1
2020	359.4	428.7	443.3	544.2
2500	376.9	427.5	473.8	508.8
3000	388.2	435.2	468.7	490.3

Tire load/lbs	Tire inflation pressure/psi			
	55	70	90	110
	Average contact pressure/psi			
3420	22.5	29.5	32.6	37.4
4450	25	29.6	30.6	37.5
5515	26	29.5	32.7	35
6620	27	30	32.3	33.8

**Low tire pressure - 380 kPa (55 psi).**

The lower the tire pressure, the lower the pressure on the contact surface due to larger contact surface.

Is used on lots of loose material.



*Fig. Low ground pressure, larger area*

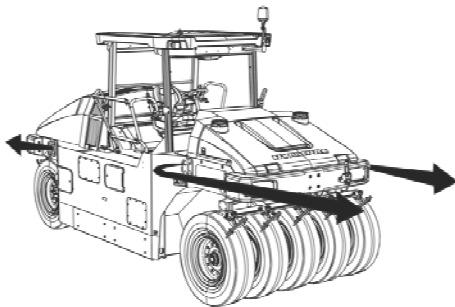
**Towing the roller**



**When towing/recovering, the roller must be braked by the towing vehicle. A towing bar must be used as the roller has no brakes.**



The roller must be towed slowly, max. 5 km/h (3 mph) and only towed a short distance, max. 300 m (1,000 ft).



**Fig. Towing**

When towing/retrieving a machine, the towing device must be connected to both lifting holes in the diagram.

Pulling forces should act parallel to the machine's longitudinal axis, as illustrated. See table below for maximum permitted pulling force for machine model.

Model	kN	lbf
CP275	412	92,700



Reverse the towing preparations made to the hydraulic pump and/or the motor.

## Maintenance - Maintenance schedule

### Every 500 hours of operation (Every three months)

Refer to the contents to find the page number of the sections referred to !

Pos. in fig	Action	Comment
1,2	Change the diesel engine oil and oil filter	Refer to the engine manual
3	Change the engine fuel filter	Refer to the engine manual
3	Change the engine pre-filter	
	Check bolted joints	
7	Check the hydraulic reservoir cover/breather	
17	Lubricate lower pivot bearing	
18	Lubricate upper pivot bearing	

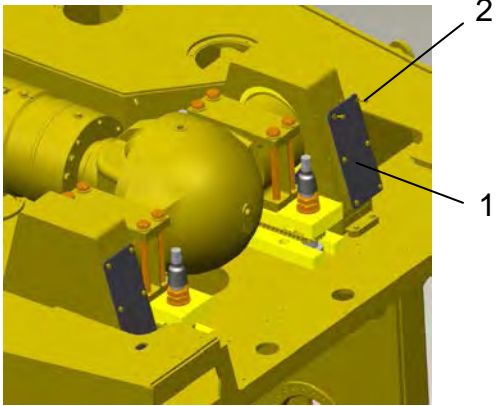
### Every 1000 hours of operation (Every six months)

Refer to the contents to find the page number of the sections referred to !

Pos. in fig	Action	Comment
	Check engine valve clearances	Refer to the engine manual
	Check the engine belt drive system	Refer to the engine manual
9	Replace the air cleaner	
4	Change the hydraulic fluid filter	
15	Replace the air cleaner filter in the cab	
17	Lubricate lower pivot bearing	
18	Lubricate upper pivot bearing	
20	Change the oil in the wheel gear	
20	Check the oil level in the wheel gear	
22	Propulsion pump filter	
	Check and adjust emergency stop	



**Drive chain maintenance (250 hours)**



When the machine working over 250 hours ,  
drive chain need to maintain.

Loosen the bolts (2) on the cover (1).

Gear oil used: Dynapac Gear Oil 100,  
rotating the rear wheel until the drive chain  
lubricate absolutely;

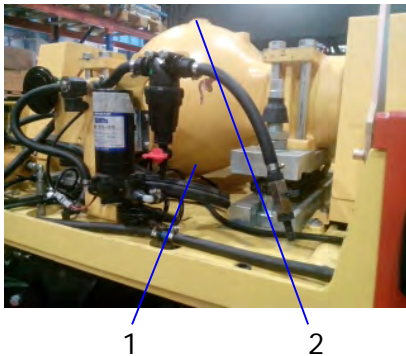
Repeat the procedure on the other side.

1. Cover

2. Bolt



### Wheel gear - Oil change



**Fig. Wheel gear**  
1. Drain plug  
2. Filler plug



**Take great care when draining the fluid. Wear protective gloves and goggles.**



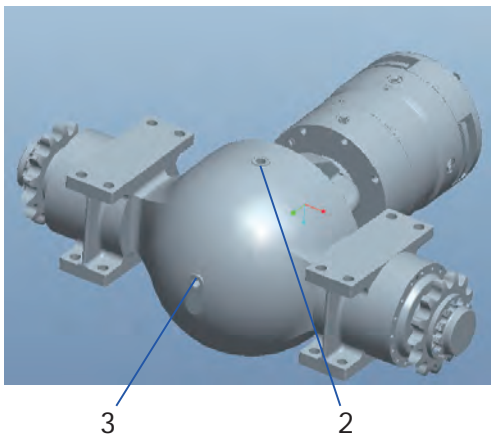
Note: When filling and draining the gear oil and checking the level of gear oil, always park the roller on a level surface.

Place a receptacle that holds at least 20 liters (5.3 gal) under the drain plug.

Unscrew the drain plug (1) and filler plug (2) to evacuate air. Allow all the oil to drain out and refit the plug.



Deliver the drain oil to environmentally correct handling.



**Fig. Driving gearbox - Replenishing oil**  
2. Filler plug  
3. Level plug

### Driving gear - Replenishing the oil

Move the machine so that the filler hole is correctly positioned. The hole should be just over the horizontal position to simplify filling.

Unscrew the filler plug (2). Unscrew the level plug (3) as well to evacuate air. Oil is filled from the filler well.

Fill up with approx. 20 l (21 qts) of new oil. Use transmission oil, see lubricant specifications.

Move the machine so that the level plug (3) is in horizontal position.

Ensure that the oil level reaches up to the lower edge of the plug hole.

Clean and refit the plugs.

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