

Document Title: <b>Description</b>	Function Group: <b>500</b>	Information Type: <b>Service Information</b>	Date: <b>2014/3/31</b>
Profile: <b>WLO, L330D [GB]</b>			

## Description

### Service brake

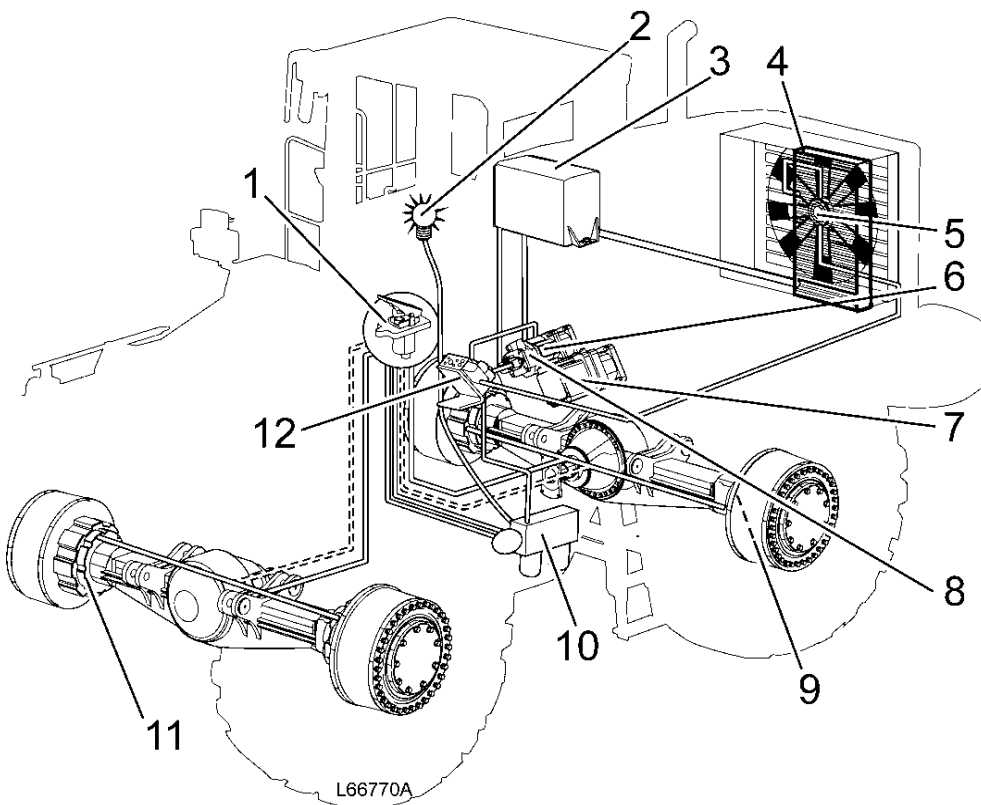
The machine is equipped with a fully hydraulically controlled service brake system, divided into two circuits with one circuit for the front axle and one for the rear axle.

The service brake system is a part of the machine's hydraulic system, and consists of a hydraulic oil pump for system pressure, distribution valve, accumulators foot brake valve as well as oil-cooled wet disc brakes.

The system is supplied with oil in two ways:

- Hydraulic brake pressure charging, with oil from pump 2 (P2), which is automatic when operating at a hydraulic pressure higher than 12 MPa (120 bar) (1740 psi) in the steering, fan or working hydraulic system.
- Electric brake pressure charging that charges the system accumulators using Pump 3 (P3), which is controlled by SE504 on the accumulator block. The accumulators are also charged when the machine is stationary and during carrying operations when the pressure in the brake accumulators is less than 12 MPa (120 bar) (1740 psi).

From the pumps, the oil is directed through the central block to the accumulator block, then to the foot brake valve and out to the wet disc brakes at each wheel.



**Figure 1**  
**Service brake**

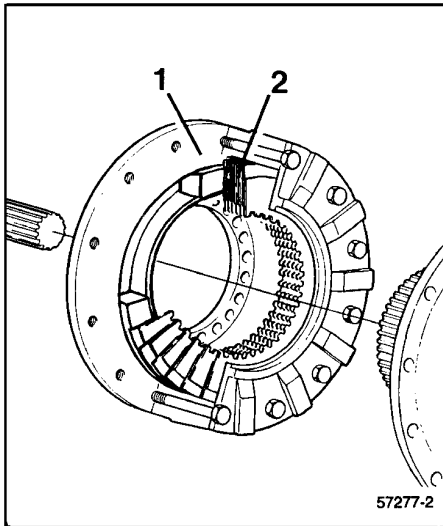
- |   |                                    |   |            |
|---|------------------------------------|---|------------|
| 1 | Foot brake valve                   | 7 | Pump 1     |
| 2 | Warning lamp, "Low brake pressure" | 8 | Pump 3     |
| 3 | Hydraulic oil tank                 | 9 | Rear brake |

- 4 Hydraulic oil cooler
- 5 Fan motor
- 6 Pump 2

- 10 Brake accumulator block
- 11 Front brake
- 12 Central valve block

**Brakes**

The multi-disc brakes are outboard mounted by the hub reductions. The disc brakes brake the entire rolling torque of the wheel, that is, not through a gear, and are cooled through a separate brake cooling circuit. The pump for the brake cooling circuit is located on the torque converter. The oil in the brake circuit is the same oil that is in the hydraulic transmission, and thus cooling takes place in the transmission oil cooler. The brake cooling circuit is equipped with an oil filter located on the right side of the machine.

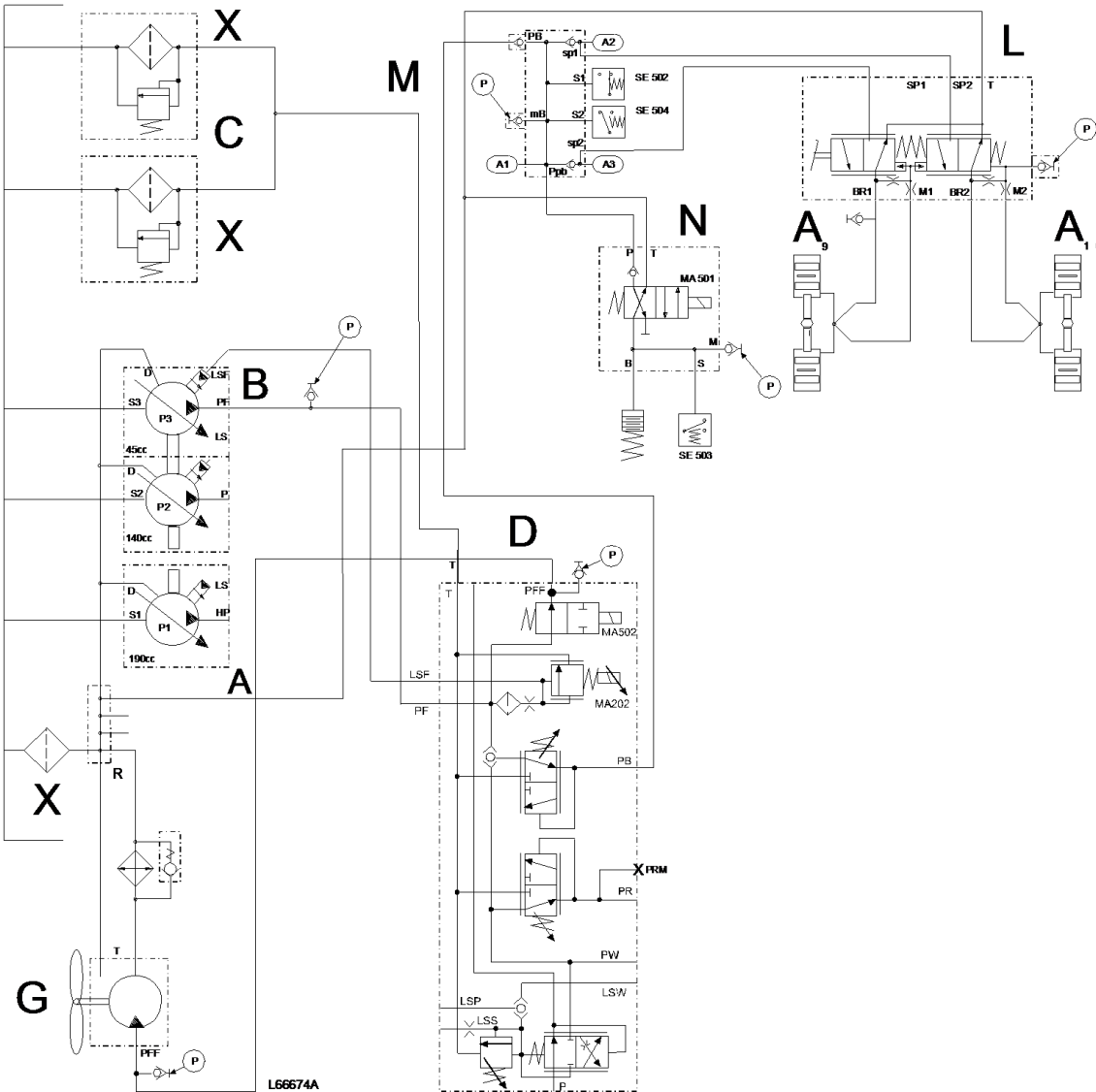


**Figure 2**  
**Wet disc brakes**

- 1. Piston
- 2. Brake discs

Document Title: <b>Brake and fan hydraulics, hydraulic diagram</b>	Function Group: <b>500</b>	Information Type: <b>Service Information</b>	Date: <b>2014/3/31</b>
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**Brake and fan hydraulics, hydraulic diagram**



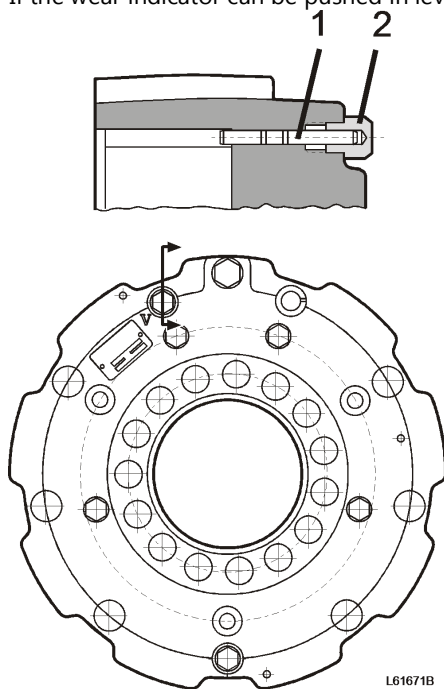
**Figure 1**  
**Hydraulic diagram, brake and fan hydraulics**

Document Title: <b>Brake discs, checking wear</b>	Function Group: <b>510</b>	Information Type: <b>Service Information</b>	Date: <b>2014/3/31</b>
Profile: <b>WLO, L330D [GB]</b>			

## Brake discs, checking wear

### Op nbr 51001

1. Start the engine and run up the pressure in the brake system.
2. Turn off the engine.
3. Remove the protective plug and apply the brake, push in the brake wear indicator at the same time.  
If the wear indicator can be pushed in level with the housing or farther, then the brake discs must be changed.



**Figure 1**

1. Brake wear indicator
2. Protective plug

Document Title: <b>Brake discs, changing</b>	Function Group: <b>516</b>	Information Type: <b>Service Information</b>	Date: <b>2014/3/31</b>
Profile: <b>WLO, L330D [GB]</b>			

## Brake discs, changing

### Op nbr 5160551705

[999 3522 Quick-coupling](#)

[999 3723 Nipple](#)

[999 3726 Nipple](#)

[999 3802 Lifting device](#)

[999 3856 Guide](#)

[11 666 013 Pump](#)

[11 666 020 Pressure gauge, range 0–25 MPa \(0–18.4 psi\)](#)

[11 666 025 Jack](#)

[11 666 026 Puller](#)

[11 666 030 Pump](#)

[11 666 037 Hose](#)

[11 667 001 Handle](#)

[11 667 130 Plate](#)

[14 190 806 Vacuum pump](#)

Nipple, part no. 13 933 251

Plug, part no. 13 802 606. Drill and thread to M14 x 1.5

Shackle 1/2"

Sling

Bolt 1/2" UNC x 3", 3 pcs.

Stand jacks 20 ton, 2 pcs.

1. Make sure that the brake system pressure has been released.  
Lock the frame joint with the joint lock.  
Raise the machine. Drain the oil from the hub reduction and the brake housing.  
Remove the wheel.  
Wheel, weight: **approx. 1500 kg (3300 lbs) (inflated)**

**Thank you very much for reading.**

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