

Document Title: <b>Brakes</b>	Function Group: <b>030</b>	Information Type: <b>Service Information</b>	Date: <b>5/8/2020</b>
Profile:			

## Brakes

### Hydraulic pump (in common with other hydraulics)

Type Nine-cylinder axial piston pump, variable displacement

### Service brakes

Type	Dual circuit hydraulic disc brake
Brake friction area, front	1750 cm <sup>2</sup> (271 in <sup>2</sup> )
Brake friction area, rear	1750 cm <sup>2</sup> (271 in <sup>2</sup> )
Accumulator capacity	3 x 0.5 litre (3 x 30.5 in <sup>3</sup> )
Precharging pressure, new accumulators	5.0 MPa (50 bar) (725 psi)
Min. permissible pressure	3.5 MPa (35 bar) (508 psi)
Foot brake pedal angle (adjustable)	std. 50°
Brake pressure max.	15.0 ±0.5 MPa (150 ±5 bar) (2176 ±73 psi)
Brake pressure in circuit	8.0 ±0.4 MPa (80 ±4 bar) (1160 ±58 psi)
Unloading pressure (electrical)	13.7 ±0.3 MPa (137 ±3 bar) (1987 ±44 psi)
Cut-in pressure	12.0 ±0.3 MPa (120 ±3 bar) (1740 ±44 psi)

### Brake disc, thickness

#### 1. Axles without built-in wear indicator

Axle type	Product no.	Up to incl. serial number:
Standard	23820	–12161
"Limited slip", front	23831	–10014
"Limited slip", rear	23868	–10034
Mechanical differential lock	23836	–10854
New disc, approx.:	8.9 mm (0.35 in)	
Minimum permissible measurement:	7.6 mm (0.30 in)	

#### 2. Axles with built-in wear indicator

Axle type	Product no.	W.e.fr. serial number:
Standard	23820	12162–
"Limited slip", front	23831	10015–
"Limited slip", rear	23868	10035–
Mechanical differential lock	23836	10855–
New disc, approx.:	8.9 mm (0.35 in)	

Minimum permissible measurement: 7.6 mm (0.30 in)

**Parking brake**

Type	Mechanically operated drum brake on front axle
Optional equipment	Hydraulic control

Document Title: <b>Capacities and weights</b>	Function Group: <b>030</b>	Information Type: <b>Service Information</b>	Date: <b>5/8/2020</b>
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## Capacities and weights

### Capacities

NOTE: Stated capacity applies when changing, unless otherwise stated.

	<b>dm<sup>3</sup> = litres</b>	<b>(US gal)</b>
Engine incl. filter	11.0	2.9
Cooling system	22.0	5.8
Fuel tank	170.0	44.9
Gearbox	6.5	1.7
Front axle incl. hub gears	25.5	6.7
Rear axle incl. hub gears	24.5	6.5
Hydraulic system (total)	106.0	28.0
Hydraulic oil tank	65.0	17.2

### Weights, approx.

	<b>lb</b>	<b>kg</b>
Engine, TD40GA	410	904
Engine, TD40KAE	430	948
Engine, TD40GFE	450	992
Radiator	50	110
Hydrostatic pump	54	119
Hydrostatic motor	46	101
Gearbox HST-75	160	353
Front axle	385	849
Rear axle	375	827
Steering cylinder	14	31
Front frame	730	1609
Rear frame	780	1720
Counterweight	630	1389
Belly plate	55	121
Lifting frame, incl. links and pivot pins	845	1863
Attachment bracket	170	375
Lifting cylinder	57	125
Tilting cylinder	62	137
Cab	600	1323
Hydraulic oil pump	40	88
Control valve	45	99
Central valve	25	55

Fuel tank	55	121
Hydraulic oil tank	45	99
Operator seat	45	99

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## Capacities and weights

### Capacities

**litres (US gal)**

NOTE: Stated capacity applies when changing, unless otherwise stated.

Gearbox	6.5 (1.7)
Front axle incl. hub gears	25.5 (6.7)
Rear axle incl. hub gears	24.5 (6.5)
Hydraulic system (total)	106.0 (28.0)
Hydraulic oil tank	65.0 (17.2)

### Weights, approx.

**kg (lb)**

Cab	600 (1323)
Operator seat	45 (99)
Hydrostatic pump	54 (119)
Hydrostatic motor	46 (101)
Gearbox HST-75	160 (353)
Gearbox	170 (375)
Front axle	385 (849)
Rear axle	375 (827)
Steering cylinder	14 (31)
Front frame	730 (1609)
Rear frame	780 (1720)
Counterweight	630 (1389)
Belly plate	55 (121)
Lifting frame, incl. links and pivot pins	845 (1863)
Attachment bracket	170 (375)
Lifting cylinder	57 (126)
Tilting cylinder	62 (137)
Hydraulic oil pump	40 (88)
Control valve	45 (99)
Central valve	25 (55)
Hydraulic oil tank	45 (99)

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