Technical Data

Engine		L 506	L 508
Diesel engine		4TNV98C-SJLW5	4TNV98C-PJLW5
Design		Water-cooled diesel	suction engine
Cylinder inline Fuel injection process		4	4
		Common Rail direct	injection
Max. gross output to			
ISO 3046 and		10/00	50/00
SAE J1995 I			50/68
	t RPM	2,200	2,400
Max. net output to ISO 9249 and			
SAE J1349 F	۸۸//LID	4E/61	48/65
	t RPM		2.400
Rated output to	11 11 171	2,200	2,400
ISO 14396 F	kW/HP	46/63	50/68
	t RPM		2.400
Max. net torque to		_,	2,
ISO 9249 and			
SAE J1349	Nm	239	237
а	t RPM	1,430	1,560
Displacement	_ litres	3.319	3.319
Bore/Stroke	mm	98/110	98/110
Air cleaner system		Dry air filter with mai	n and safety element
Electrical system			
Operating voltage	V	12	12
Battery	Ah	1 x 100	1 x 100
Alternator			12/80
Starter	_ V/kW	12/3	12/3

The exhaust emissions are below the limits in stage IIIB / Tier 4f.



Driveline	
Stepless hydrostatic travel drive	
Design	Swash plate type variable flow pump and a variable axial piston motor in a closed loop circuit
Filtering system	Suction return line filter for closed circuit
Control	Control of travel drive with travel and combined inching
	pedal. The inching pedal permits continuously variable
	adjustment of crowding and tractive force to match ground and operating conditions. The Liebherr
	joystick is used to control forward and reverse travel
Fravel speed range	_Travel speed range 1 0 - 6 km/h
forward and reverse)	Travel speed range 2 0 – 20 km/h

The quoted speeds apply with the tyres that are standard equipment on the loader.



Four-wheel drive	
Design	Rigidly mounted planetary-hub axle
Differentials	Automatic limited-slip differential with 45% locking
	action
Reduction gear	Planetary final drive in wheel hubs
Track width	Max. 1,350 mm



Brakes

Service brake	Self-inhibition of the hydrostatic travel drive,
	wear free, effective on all 4 wheels and additional,
	hydraulically activated drum brake
Parking brake	Mechanically operated drum brake

The braking system meets the requirements of the EC guidelines 71/320.



Design	Oscillating center pivot
Articulation angle	40° to each side
Centre-pivot steering	. 10° to each side



Attachment Hydraulics

	o supply attachment hydraulics and em (via priority valve)
Suction retur	n line filter in the hydraulic reservoir
Jovstick trave	el control with Liebherr control lever,
Lifting, neutra	al, lowering
	controlled by Liebherr joystick with
detent	
Tilt back, neu	itral, dump
3. control circ	cuit is optional equipment
L 506	L 508
_ I/min. 70.4	76.8
bar 230	230
	steering syste Suction retur Joystick trave direct control Lifting, neutra Float positior detent Tilt back, neu 3. control cird L 506 I/min. 70.4



Geometry	Powerful Z-bar linkaç hydraulic quick hitch	ge with parallel guidance and
Bearings		ralled bushings with lubricating
	grooves	
Cycle time at nominal load	L 506	L 508
Lifting	. 5.3 s	6.5 s
Dumping	. 1.3 s	1.5 s
Lowering (empty)	29s	40s



Design	. The cab is mounted on the rear section, with built in ROPS/FOPS structure. Operator's door with 178° opening angle, ventilation opening on the right side, tinted safety glass window
	ROPS roll over protection per EN/ISO 3471/ EN 474-1
	FOPS falling objects protection per EN/ISO 3449/ EN 474-1
	Adjustable steering column available as optional extra
Operator's seat	4 way adjustable seat with seat belt, adjustable for operator's weight (mechanically sprung)
Cab heating and ventilation	Operator's cabin with defroster and rear window heating, fresh air filter, air recirculation system and hot water heating, cabin ventilation



ISO 6396	L _{nA} (inside cab)	= 78 dB(A)
Sound power level to	рд (,
2000/14/EC	L _{WA} (surround noise)	= 101 dB(A)



Capacities

Fuel tank	501
Engine oil (inclusive filter change)	10.2 l
Coolant	12 l
Front axle	61
Rear axle	61
Transmission	11
Hydraulic tank	55 l
Hydraulic system, total	90 I

Technical Data

Engine Output / Torque





Tyres

	Size and tread code		Change of operating weight	Width over tyres	Change in vertical dimensions *	Use
	ilead code		kg	mm	mm	USC .
506 сотра	ct		9			
Bridgestone	365/80R20 VUT	L2	47	1,750	31	Gravel, Asphalt (all ground conditions)
Bridgestone	405/70R20 VUT	L2	83	1,790	33	Gravel, Asphalt (all ground conditions)
Dunlop	15.5/55R18 SP PG7	L2	- 53	1,760	- 43	Sand, Gravel, Asphalt (all ground conditions)
Dunlop	365/70R18 SP T9	L2	- 37	1,750	- 14	Sand, Gravel, Asphalt (all ground conditions)
Dunlop	365/80R20 SP T9	L2	39	1,750	41	Sand, Gravel, Asphalt (all ground conditions)
Dunlop	405/70R18 SP T9	L2	19	1,780	9	Sand, Gravel, Asphalt (all ground conditions)
Dunlop	405/70R20 SP T9	L2	75	1,780	35	Sand, Gravel, Asphalt (all ground conditions)
irestone	340/80R18 Duraforce UT	L3	0	1,740	0	Gravel, Asphalt, Industry (all ground conditions)
Firestone	365/80R20 Duraforce UT	L3	60	1,760	38	Gravel, Asphalt, Industry (all ground conditions)
Firestone	400/70R20 Duraforce UT	L3	101	1,780	28	Gravel, Asphalt, Industry (all ground conditions)
Firestone	400/70R20 R8000 UT	L2	78	1,780	28	Earthworks, Green area (all ground conditions)
Firestone	405/70R18 Duraforce UT	L3	71	1,790	8	Gravel, Asphalt, Industry (all ground conditions)
Michelin	375/75R20 XZSL	L3	85	1,780	37	Gravel, Asphalt, Industry (all ground conditions)
Michelin	400/70R20 BIBLOAD	L3	75	1,780	23	Gravel, Asphalt, Industry (all ground conditions)
Michelin	400/70R20 XMCL	L2	91	1,790	29	Earthworks, Green area (all ground conditions)
Vitas	365/70R18 EM-01	L2	- 21	1,760	- 15	Gravel, Asphalt (all ground conditions)
Mitas	365/80R20 EM-01	L2	39	1,760	37	Gravel, Asphalt (all ground conditions)
Vitas	405/70R18 EM-01	L2	35	1,790	10	Gravel, Asphalt (all ground conditions)
Mitas	405/70R20 EM-01	L2	71	1,790	35	Gravel, Asphalt (all ground conditions)
Frelleborg	400/70R20 TH400	L2	85	1,780	23	Earthworks, Green area (all ground conditions)
L 508 compa				,		3
Bridgestone	365/80R20 VUT	L2	- 24	1,750	23	Gravel, Asphalt (all ground conditions)
Bridgestone	405/70R20 VUT	L2	12	1,790	25	Gravel, Asphalt (all ground conditions)
Dunlop	15.5/55R18 SP PG7	L2	- 124	1,760	- 51	Sand, Gravel, Asphalt (all ground conditions)
Dunlop	365/80R20 SP T9	L2	- 32	1,750	33	Sand, Gravel, Asphalt (all ground conditions)
Dunlop	405/70R18 SP T9	L2	- 52	1,780	1	Sand, Gravel, Asphalt (all ground conditions)
Dunlop	405/70R20 SP T9	L2	4	1,780	27	Sand, Gravel, Asphalt (all ground conditions)
irestone		L3	- 71	1,740	- 8	Gravel, Asphalt, Industry (all ground conditions)
irestone	365/80R20 Duraforce UT		- 11	1,760	30	Gravel, Asphalt, Industry (all ground conditions)
irestone	400/70R20 Duraforce UT		30	1,780	20	Gravel, Asphalt, Industry (all ground conditions)
Firestone	400/70R20 R8000 UT	L2	7	1,780	20	Earthworks, Green area (all ground conditions)
irestone	405/70R18 Duraforce UT		0	1,790	0	Gravel, Asphalt, Industry (all ground conditions)
Michelin	375/75R20 XZSL	L3	14	1,780	29	Gravel, Asphalt, Industry (all ground conditions)
/lichelin	400/70R20 BIBLOAD	L3	4	1,780	15	Gravel, Asphalt, Industry (all ground conditions)
/lichelin	400/70R20 XMCL	L2	20	1,790	21	Earthworks, Green area (all ground conditions)
/litas	365/80R20 EM-01	L2	- 32	1,760	29	Gravel, Asphalt (all ground conditions)
∕iitas	405/70R18 EM-01	L2	- 36	1,790	2	Gravel, Asphalt (all ground conditions)
/iitas	405/70R20 EM-01	L2	0	1,790	27	Gravel, Asphalt (all ground conditions)
Frelleborg	400/70R20 TH400	L2	14	1,780	15	Earthworks, Green area (all ground conditions)