

655C CRAWLER LOADER

33,950 lb (15 400 kg)

Overall Height	10 ft 3 in. (3.12 m)
Overall Length	20 ft 1 in. (6.13 m)
Machine Width with Bucket	8 ft 0 in. (2.44 m)
Ground Clearance	15.6 in. (395 mm)

ENGINE.....Liebherr D 924 T-E

Number of Cylinders and Displacement	4 cylinders, 409 cu in. (6.7 L)
Air Intake System.....	Turbocharged
Bore and Stroke	4.803 x 5.590 in (122 x 142 mm)
Net hp at 2000 rpm	130 SAE hp (97 kW)
Compression Ratio	17.2:1
Maximum Torque at 1400 rpm	432 lb-ft (585 N•m)
Nozzle Opening Pressure:	
New	3263 psi (22 500 kPa) (225 bar)
Used	3147 psi (21 700 kPa) (217 bar)
Valve Clearance (Cold):	
Intake	0.010 in. (0.25 mm)
Exhaust	0.012 in. (0.30 mm)
Oil Pressure at:	
Fast Idle.....	51 psi (350 kPa) (3.5 bar)
Slow Idle	22 psi (150 kPa) (1.5 bar)
Speeds:	
Slow Idle	800 ± 50 rpm
Fast Idle.....	2100 ± 80 rpm
Rated Full Load	2000 rpm
Cylinder Pressure Hot:	
Minimum	290 psi (2000 kPa) (20 bar)
Maximum	406 psi (2800 kPa) (28 bar)
Maximum Differential Between Cylinders	58 psi (400 kPa) (4 bar)
Electrical System	24V
Alternator	55 amp

TRANSMISSION

Type	Dual-path, electronic-controlled, closed loop hydrostatic drive
Travel Speeds (Forward and Reverse):	
Low Range	0—3.1 mph (0—5 km/h)
High Range	0—6.8 mph (0—11 km/h)

POWER TRAIN

Replenishment Pump:	
Type.....	Gear
Oil Flow (Max)	22 gpm (83 L/min)
Travel Drive Motor:	
Type.....	Bent-axis type, variable-flow motor
Travel Drive Pump:	
Type.....	Variable-flow, swash plate type
Oil Flow (Max)	41 gpm 154 L/Min)

HYDRAULIC SYSTEM

Regulating Pump:	
Type.....	Axial-piston, swash plate type
Oil Flow	41 gpm (156 L/min)
Stand-By Pressure.....	290—305 psi (2000—2100 kPa) (20—21 bar)

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RELIEF VALVE SETTINGS

Regulating Pump Relief	3771 ± 73 psi (26 000 ± 500 kPa) (260 ± 5 bar)
Travel Drive Motor Relief	145 psi (1000 kPa) (10 bar)
Travel Drive Pump (Max):	
Close Circuit Left/Right	5947—6527 psi (4100—45000 kPa) (410—450 bar)
Travel Forward/Reverse	5947—6527 psi (4100—45000 kPa) (410—450 bar)

CYCLE TIMES (Maximum)

Standard Bucket:	
Raise (From Ground to Maximum)	6.4 sec
Lower (Maximum to Ground)	2.1 sec
Tilt In (Ground Level to Maximum)	1.2 sec
Tilt In (Maximum to Maximum)	2.7 sec
Tilt Out (Upside: Maximum to Maximum)	1.1 sec

CYLINDER DRIFT (Maximum Allowable in 10 Minutes)

Bucket:	
Dump Cylinder	0.59 in. (15 mm)
Lift Cylinder	0.59 in. (15 mm)
Tilt Cylinder	0.59 in. (15 mm)
Ripper:	
Lift Cylinder	0.79 in. (20 mm)

LUBRICANTS

See front of this book for the codes [].

CAPACITIES

U.S.

Metric

Engine:		
Cooling System (w/ Recovery Tank) [N]	11 gal	42 L
Cooling System (Series II)	18 gal	68 L
Oil Capacity w/ Filter [E]	19 qt	18 L
Oil Capacity w/ Filter [E] (Series II)	5.3 gal	20 L
Fuel Tank	69 gal	260 L
Final Drive (Each) [J]:	8.9 qt	8.5 L
Hydraulic/Hydrostatic		
Reservoir w/ Filter [U or E]	34 gal	130 L
Splitter Drive	2.6 qt	2.5 L