TEREX | SCHAEFF

HML 32 SERVICE-MANUAL

List of Contents

DIESEL ENGINE

Manufacturer:		Mitsubishi
Type:		L 3 E - W 262 KL
Performance acc. to DIN 70020 + ECE-R24:	kW/PS	13.3 / 18 at 2,400 min^{-1}
Construction:		3 cylinders in line
Cooling:		water / anti-freeze agent
Capacity:	cm^3	952
High idle:	min^{-1}	2,580 $^{+35}/_{-10}$
Low idle:	min^{-1}	1,020 $^{+50}$
Spec. fuel consumption (full load):	g/kWh	247
Fuel bleeding:		automatic
Engine oil pressure:	bar	3.0 $^{\pm 0.3}$ at 1,000 min^{-1}
Tappet clearance - inlet / exhaust:	mm	0.25 (cold)
Injection timing:	°	17 before upper dead centre
Torque of cylinder head studs:	Nm	M 10: 75 - 85
		M 8: 20 – 30
Electrical fuel pump:	bar	0.18
	l/min	0.37
Injection pressure:	bar	140
Further data:		see engine operating manual

ELECTRICAL SYSTEM

Voltage:	V	12
Battery:	V/Ah	12 / 74
Generator:	V/A	12 / 40
Starter:	V/kW	12 / 1.7
Starting aid:		3 glow plugs, glow time controlled
Lighting:		working headlight H3

TRANSMISSION

Travel motors:	make/type	SOM MOR 15
Travel gears:	make/type	SOM PGR 132 N
Travel speed:	km/h	0 to 2.7

EXCAVATOR AND TRAVEL HYDRAULICS

Hydaulic pump:	make	Haldex WP 09 A2
Flow rate:	l/min	33,6 + 19,2
Pilot pressure (high idle):	bar	28 (service temperature)
Valve bank:	type	Rexroth 9SX10
Cross servo control stick:	tpye	Rexroth 4TH 5
Servo control unit:	make	Hydac
Cut off valve:	make	Bergin
Cut off pressure (high idle):	bar	110 (service temperature)

SLEW DRIVE

Slew motor with gearbox:	make	Dinamic Oil VS 45 (up to s/n: 1100/0252)
Slew pressure (valves at slew motor):	bar	130 (high idle and service temperature, measured at pressure gauge P1)
Slew motor with gearbox:	make	SOM SD50+GWS200 (from s/n: 1100/0253)
Slew pressure (valves at slew motor):	bar	140 (high idle and service temperature, measured at pressure gauge P1)

PRESSURE AND SETTING VALUES

Main pressure relief valve (high idle):	max. bar	165

LINE RELIEF PRESSURES

- travel left (valves in the motor):	bar	----
- travel right (valves in the motor):	bar	----
- slewing (valves at the slew motor):	bar	130 (up to s/n: 1100/0252) 140 (from s/n: 1100/0253) (high idle and service temperature, measured at pressure gauge P1)
- dipperstick:	bar	210 / 210
- bucket:	bar	210 / 210
- boom lift / lower:	bar	210 / 160
- breaker / slew bucket / grab rotation:	bar	----
- articulation:	bar	anti cavitation
- dozer blade:	bar	----

CYCLE TIMES

Boom up / down to the ground:	s	3.2 / 3.0
Dipperstick extend / retract:	s	2.4 / 2.8
Bucket extend / retract:	s	1.9 / 2.8

LUBRICANTS

Engine oil:	see engine instruction book
Hydraulic oil:	see hydraulic oil recommendation table
Transmission oil:	MIL-L-2105 B or API-GL5, SAE 85 W 90 LS or SAE 90 LS
Multiple-purpose grease:	acc. to DIN 51825. Dripping point over 170° C. With lithium.

MAINTENANCE PARTS

see operation manual

CAPACITIES

		ltr.	
Fuel:	approx.	30.0	diesel
Engine oil, engine and filter:	approx.	3.4 + 0.2	HD-oil (change)
Hydraulic oil, tank and system:	approx.	35.0	hydraulic oil
Hydraulic oil tank:	approx.	25.0	hydraulic oil (change)
Travel gear:	approx.	0.3	transmission oil, each
Slew gear:	approx.	0.15	transmission oil
Cooling agent:	approx.	4.2	water with anticorrosive and anti-freeze agent

The values stated are approximate.
The level indicator is always decisive.