



TEREX | SCHAEFF

SKL 844

SERVICE-MANUAL

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DIESEL ENGINE

Manufacturer:		Mitsubishi
Type:		L 3 E
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	2,600 ⁺³⁵ / ₋₁₀
Low idle:	min ⁻¹	1,020 ⁺⁵⁰
Spec. fuel consumption (full load):	g/kWh	247
Fuel bleeding:		automatic
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
Further data:		see engine operating manual

ELECTRICAL SYSTEM

Voltage:	V	12
Battery:	V/Ah	12 / 72
Generator:	V/A	12 / 40
Starter:	V/kW	12 / 1.7
Starting aid:		3 glow plugs, glow time controlled
Lighting:		working headlight HR3

TRANSMISSION

Travel motors:	make/type	SOM MOR
Travel gears:	make/type	SOM PGR 132 N
Travel speed 1 st stage:	km/h	0 to 2.2
2 nd stage:	km/h	0 to 4.1

EXCAVATOR AND TRAVEL HYDRAULICS

Hydraulic pump:	make	Nachi PVD-OB
Flow rate:	l/min	21.6+21.6+15.4
Pilot pressure (high idle):	bar	25 (service temperature)
Valve bank 1, 2, 3:	type	HV 07 VOAC
Cross servo control stick (joystick):	tpye	PCL 401
Pressure reducing valve:	make	Oil Control

SWING DRIVE

Swing motor with gearbox:	make	Dinamic Oil MGLR 200 + VS 45-01 AA
Swing pressure (valves at swing motor):	bar	130 ₃ (high idle) (service temperature, measured at gauge port P3)

PRESSURE AND SETTING VALUES

Main pressure relief valve 1, 2, 3 (high idle):	max. bar	180, 180, 180
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LINE RELIEF PRESSURES

Valve bank 1 (HV 07)

- travel left (valves in travel motor):	bar	180 / 180
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Valve bank 2 (HV 07)

- articulation:	bar	anti-cavitation
- boom lift / lower:	bar	230 / 160
- bucket:	bar	210 / 210
- travel right (valves in travel motor):	bar	180 / 180

Valve bank 3 (HV 07)

- swing (valves at the swing motor):	bar	130 ₃ (high idle, service temperature, measured at gauge port P3)
- dozer blade:	bar	----
- dipperstick:	bar	210 / 210
- breaker / swing bucket / grab rotation:	bar	----

CYCLE TIMES

Boom up / down - to the ground:	s	3.2 / 3.0
Dipperstick extend / retract:	s	2.0 / 2.6
Bucket extend / retract:	s	1.9 / 3.0

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
Multi-purpose grease:	acc. to DIN 51825. Dripping point over 170° C. Lithium-saponified.

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
Swing 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.

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