

SKL 260

SERVICE-MANUAL

List of Contents

- 1 General**
- 2 Technical Data**
- 3 Diesel Engine**
- 4 Hydraulic System**
- 5 Setting Instructions**
- 6 Functioning Description**
- 7 Electrical System
- 8 Maintenance
- 9 Operation
- 10 Options
- 11 Repair Instructions
- 12 Service-Bulletins

DIESEL ENGINE

Manufacturer:		Perkins
Type:		704 - 30
Performance acc. to DIN 70020:	kW/PS	44 / 60 at 2,300 min ⁻¹
Cooling:		water
Injection:		direct injection
Capacity:	cm ³	3,000
High idle:	min ⁻¹	2,520 ⁺⁵⁰
Low idle:	min ⁻¹	800 ⁺⁵⁰
Spec. fuel consumption under full load:	g/kWh	215
Tappet clearance - inlet cold:	mm	0.35
Tappet clearance - exhaust cold:	mm	0.35
Torque cylinder head studs (in case of repair):	Nm	50 / 85
Further data:		see engine operating manual

ELECTRICAL SYSTEM

Voltage:	V	12
Battery:	V/Ah/A	12 / 105 / 420
Generator:	V/Ah	14 / 65
Starter:	kW/PS	2.5 / 3.4
Starting aid:		4 glow plugs
Lighting:		acc. to German motor vehicle construction and use regulation and Euronorm

TRANSMISSION


Travel pump:	type	A 4 VG 40 DA with pressure cut-off
Displacement:	cm ³ /rev.	0 to 40
Travel motor:	type	A 6 VM 55 DA
Displacement:	max. cm ³ /rev.	55

TRAVEL RANGE

Symbol „tortoise“:	km/h	0 to 6
Symbol „rabbit“:	km/h	0 to 20
Cardan shaft rev. at 20 km/h		adjustment at nominal speed tortoise / rabbit
with standard tyres:		
365/70 R18:	min ⁻¹	660 / 1.940
8.25-20:	min ⁻¹	660 / 1.950
15.5/55 R18:	min ⁻¹	660 / 2.125

PRESSURE AND SETTING VALUES

		travel
Suction pressure:	bar	- 0.25
Charge pressure (high idle):	bar	30 ⁺²
High pressure (SV):	bar	480
Pressure cut-off:	bar	450
Case pressure at + 50° C:	max. bar	2.5
Regulation start (dynamic):	bar	290
Start-up speed:	min ⁻¹	1,100 ^{±50}
Engine stalling (tortoise, dynamic):	min ⁻¹	2,200 ^{±50} at 260 ⁺¹⁰ bar HP

	Typ/Model/Type	Datum/Edition/Date
	Benennung/Description/Dénomination	Blatt/Page/Feuille
	HML 22 (from serial no. 131/0512)	02.2001
	Technical Data	2.49.01

STEERING

Steering unit:	type	ZF-Hydraulik Nord LAGCSD 160 dyn.
Steering pump:	make	Commercial
Displacement:	cm ³ /rev.	10 ($\cong 28 \frac{1}{\text{min}}$)
Steering pressure (high idle):	bar	120
Priority valve:	type	ZF-Hydraulik Nord LSPSD2 225

WORKING HYDRAULICS

Working pump (variable displacement pump):	type	A 10 VO 045 DFLR
Displacement:	cm ³ /rev.	0 to 45
Gear pumps:	type	Commercial
Flow rate:	cm ³ /rev.	10 + 8 = 28 + 23 ltr.
LS-pressure relief valve:	bar	230 (valve bank 1)
LS-regulator (standby-pressure variable displacement pump)	bar	25
Servo-controlled valve (cross servo control stick):	type	VOAC PCL 401
Servo-controlled valve, linear lever (articulation):	type	VOAC PCL 402
Servo-controlled valve, linear lever (stabilizing):	type	VOAC PCL 402
Servo-controlled valve, pedal (breaker) - MONO boom / articulated boom:	type	Hamworthy
Servo-controlled valve, pedal - articulated boom / telescopic stick:	type	Rexroth 2TH6 RP20
Valve bank 1, MONO boom / articulated boom:	type	VOAC 4 L 90 LS / 5 L 90 LS
Valve bank 2:	type	VOAC 5 HV 07

PRESSURE AND SETTING VALUES

		working
LS pressure relief valve, valve bank 1:	bar	230
Main pressure relief valve 1 (L 90 LS), safety valve:	bar	260
Main pressure relief valve 2 (HV 07) (high idle):	bar	200
Line relief pressures (valve bank 1):		
- Boom:	bar	260 / 260
- Dipperstick:	bar	260 / 260
- Bucket:	bar	260 / 260
- Intermediate boom out / in:	bar	140 / 260
- Breaker - MONO boom / articulated boom (up to 131/0672):	bar	200
- Additional control circuit / breaker (from 131/0673):	bar	250 / 250
Line relief pressures (valve bank 2):		
- Slewing (valves at the slew motor):	bar	190 / 190 (high idle)
- Stabilizing:	bar	----
- Articulation:	bar	----
- Additional control circuit (up to 131/0672):	bar	250 - 250
Shut-off valve (up to serial no. 131/0542):	make	Buchholz
Shut-off valve (from serial no. 131/0543):	make	Bergin
Shut-off pressure (high idle):	bar	110
Pilot pressure (charge pressure) - high idle:	bar	30 ⁺²

SLEW DRIVE

Slew gear: (up to S/N 131/0890 without /0856)	type	HD 2.3 (Hersfelder)
Slew gear: (from S/N 131/0891 including /0856)	type	PG252PR (SOM)
Slew motor:	type	A 2 FM 23
Slew pressure (valves at the slew motor):	bar	190 (high idle)

SLEW DRIVE

Slew gear:	type	HD 2.3
Slew motor:	type	A 2 FM 23
Slew pressure (valves at the slew motor):	bar	190 (high idle)

CYCLE TIMES - MONO / articulated boom / telescopic stick

Boom up / down	sec.	4.5 / 4.5
Dipperstick in / out	sec.	3.5 / 3.5
Intermediate boom up / down	sec.	3.5 / 3.5
Bucket in / out	sec.	2.6 / 2.0
Telescopic stick in / out	sec.	2.5 / 2.5

AXLES

Front axle:	make/type	Hurth 278 / 145
Rear axle:	make/type	Hurth 302 / 171 / 267

Axles - 4-wheel steering version:

Front axle:	make/type	Hurth 278 / 145
Rear axle (up to serial no. 121/0520):	make/type	Hurth 302 / 171 / 279
Rear axle (from serial no. 121/0521):	make/type	Hurth 302 / 171 / 325

BRAKES


Service brake:		oil-immersed multi-disk brake, front axle
Service brake (master cylinder):	make	ATE
Brake medium:		ATF - oil
Beginning/end of inching:	bar	5 - 13
Parking brake:		spring-loaded brake, front axle
Hand brake valve:	make	Wabco
Brake medium:		hydraulic oil
Pressure supply (charge pressure):	bar	30 ⁺²

LUBRICANTS

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

MAINTENANCE PARTS

see operation manual

 SCHAEFF	Typ/Model/Type HML 22 (from serial no. 131/0512)	Datum/Edition/Date 02.2001
	Benennung/Description/Dénomination Technical Data	Blatt/Page/Feuille 2.49.02

CAPACITIES:**ltr.**

Engine oil (change):	approx. 8.2	engine oil
Hydraulic oil (tank and system):	approx. 120.0	hydraulic oil
Hydraulic oil (change)	approx. 104.0	hydraulic oil
Fuel tank:	approx. 115.0	diesel
Steering front axle - central housing:	approx. 8.8	transmission oil
Rear axle - central housing:	approx. 6.5	transmission oil
Reduction gear:	approx. 1.5	transmission oil
Wheel hubs front axle:	approx. 0.6	transmission oil, each
Wheel hubs rear axle:	approx. 0.6	transmission oil, each
Slew gear:	approx. 1.6	Lifetime transmission oil
Service brake:	approx. 0.5	ATF-oil
Cooling agent:	approx. 13.0	water with anti-corrosive and anti-freeze agent

Thank you very much for reading.

This is part of the demo page.

GET MORE:

**Diesel Engine, Hydraulic
System, Setting
Instructions, Functional
Description, Electrical
System And more.....**

Click Here BUY NOW

**Then Instant Download
the Complete Manual.**