



## Basic data

### General

&RQ;JXUDWLRQ*DQG*QXPEHU*RI*F.O.L.Q.G.H.U.V.....	6 in-line
Working principle.....	4-stroke
Bore x stroke .....	130 x 160 mm
Displacement .....	12.7 dm <sup>3</sup>
Compression ratio .....	16.3:1 (DC13 072A, DC13 073A)
.....	17.3:1 (DC13 071A)
Firing order.....	1 - 5 - 3 - 6 - 2 - 4
Piston speed	
at 1500 rpm .....	8.0 m/s
at 1800 rpm .....	9.6 m/s
Pistons.....	Steel pistons
Camshaft.....	High position alloy steel
Connection rods.....	,5VHFWLRQ*SUHVV*IRUJLQJV*RI*DOOR\VWHHO
Crankshaft.....	Alloy steel with hardened and polished bearing surfaces
5RWDWLRQ8*VHHQ*IURP*ÀZKHHQ*HQQ.....	Counter clockwise
7RWDO*PRPHQW*RI*LQHUUWLD*ZLWK*ÀZKHHO	
SAE 14 .....	3.11 kgm <sup>2</sup>
* 1XPEHU*RI*WHHWK*RQ*ÀZKHHO*ULQJ*.JHDU.....	158
Weight approx. (excl. oil and coolant) .....	1050 kg

### Lubrication system

Oil capacity (deep front oil sump with ladder frame)	
min.....	39 dm <sup>3</sup>
max.....	45 dm <sup>3</sup>
Oil capacity (deep front oil sump without ladder frame)	
min.....	30 dm <sup>3</sup>
max.....	36 dm <sup>3</sup>
Oil consumption .....	<0.3 g/kWh
Oil change intervals.....	500 h
Oil grade	
engines run on low-sulphur fuel .....	ACEA E3, E4, E5 or E7
engines not run on low-sulphur fuel .....	Total Base Number (TBN) at least 12 (ASTM 2896)
Oil pressure	
normal .....	3-6 bar
minimum permitted at idle speed .....	0.7 bar
Oil temperature	
normal .....	90-110 °C
Oil cleaner .....	Centrifugal
* ;OWUDWLRQ.....	5-7 Micron
2LO* ;OWHU.....	3DSHU@)XOO*ÀRZ
Oil cooler .....	:DWHU*FRROHG@)XOO*ÀRZ

### Injection system

Type .....	Unit injectors, PDE
Governor .....	Scania Engine Management System, EMS
)XHO* ;OWHU.....	3DSHU* ;OWHU*HOHPHQW8*CD*PLFUR
)XHO*SUH5;OWHU*ZLWK*ZDWHU*.VHSJUDWRU.....	3DSHU* ;OWHU*HOHPHQW8*ED*PLFUR



### Cooling system

Coolant volume, excl. radiator.....	16	dm <sup>3</sup>
Coolant temperature .....	90-95	°C
Number of thermostats.....	1	
Opening temperature .....	80/87	°C

### Intake system

Permissible pressure drop in intake system ZLWK*FOHDQHG*RU*QHZ*¿QWHU.....	300	mmWc
Permissible pressure drop in intake system ZLWK*EORFNHG*GGLUWAH*¿QWHU.....	500	mmWc

### Electrical system, optional equipment

Type .....	1-pole, 24V, DC
Starter, standard equipment.....	1-pole, 24V, 6,0 kW
Alternator, standard equipment.....	1-pole, 28V, 100A