



Basic data

General

&RQ;JXUDWLRQ*DQG*QXPEHU*RI*F:QLQGHUV.....	90° V8	
Working principle.....	4-stroke	
%RUH*[*VWURNH.....	789*[*7:;	mm
Displacement.....	15.6	dm ³
Compression ratio		
DC16 43/45A.....	18:1	
DC16 44/46A/49A.....	16:1	
Firing order.....	1 - 5 - 4 - 2 - 6 - 3 - 7 - 8	
Piston speed		
at 1500 rpm.....	7.7	m/s
at 1800 rpm.....	9.24	m/s
Pistons.....	Aluminium bodies and steel crowns	
Connection rods.....	=VHFWLRQ*SUHVV*IRUJLQV*RI*DOOR\VWHHO	
Crankshaft.....	Alloy steel with hardened and polished bearing surfaces	
5RWDWLRQ@*VHHQ*IURP*À\ZKHHO*HQQ.....	Counter clockwise	
7RWDO*PRPHQW*RI*LQHUWLD*ZLWK*À\ZKHHO*		
SAE 14.....	3.3	kgm ²
1XPEHU*RI*WHHWK*RQ*À\ZKHHO*ULQJ*JHJU.....	163	
:HLJKW*DSSUR[G*HH[FOG*RLO*DQG*FRRODQWI.....	1290	kg

Lubrication system

Oil capacity.....	35	dm ³
Oil consumption.....	<0.3	g/kWh
2LO*FKDQJH*LQWHUYDOV.....	400	h
Oil grade.....	At least: ACEA E3, E4 or E5	
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*FRROHGM)XOO*ÀRZ	

Injection system

Type.....	Electronic Unit injectors, PDE
*RYHUQRU.....	Scania Engine Management System, EMS
)XHO* ;OWHU.....	3DSHU* ;OWHU*HOHPHQW
)XHO*SUH= ;OWHU*ZLWK*ZDWHU*VHSDUDWRU.....	3DSHU* ;OWHU*HOHPHQW



Cooling system

&RRODQW*YROXPH@*H[FQG:UDGLDWRU.....	35	dm ³
Coolant temperature.....	75-85	°C
Number of thermostats.....	2	
Opening temperature.....	79	°C

Intake system

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

Electrical system, optional equipment

Type.....	1-pole, 24V, DC
Starter, standard equipment.....	1-pole, 24V, 7.0 kW
Alternator, standard equipment.....	1-pole, 28V, 100A