

VOLVO PENTA

D5 version B Marine Genset
D5A TA HE 1500

Document No

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01

Max permissible air intake restriction incl. air filter

kPa [in H2 O]

2,5

Exhaust system

Heat rejection to exhaust

kW [BTU/min]

17

29

44

62

69

Exhaust gas temperature after turbine

oC [oF]

220

305

375

420

440

Max allowable back pressure in exhaust line

kPa [H2 O]

6,4

8,4

11,9

3

16,7

Exhaust gas flow

m3/min [cu.ft/min]

6,4

8,4

11,9

15,0

16,7

Heat rejection the surrounding

Heat rejection from engine to surrounding

kW [BTU/min]

2

3

4

5

5

Engine water circuit

Engine water circuit capacity

11 liters [2,9 US gal]

Raw water circuit

Heat rejection to raw water

kW [BTU/min]

30

46

63

83

91

Maximum permissible raw water temp to charge air cooler

38 oC [oF]

6

8

12

14

15

Maximum temperature increase across external raw water circuit

oC [oF]

6

8

12

14

15

Maximum permissible test pressure

100 kPa [in H2 O]

LT water pump flow

6,6 m3/h [233 cu.ft/h]

Maximum pressure head of LT water pump

100 kPa [402 in H2 O]

Maximum permissible suction head of LT water pump

20 kPa [80,4 in H2 O]

Maximum permissible pressure drop over external raw water circuit

50 kPa [201 in H2 O]

Raw water system capacity

10 liters [US gal]

Power take off

Look in technical data for propulsion

Power Standards

The engine performance corresponds to ISO 3046, BS 5514, DIN 6271 and in general SAE J 1349. The technical data applies to an engine operation on a fuel with calorific value of 42,7 MJ/ kg (18360 BTU/ lb) and a density of 0,84 kg/ liters (7,01 lb/ US gal, 8,42 lb/Imp gal), also where this involves a deviation from the standards.

Engine speed governor in accordance with ISO 3046/IV, class A1 and ISO 8528-5 G2 (G3 with electronic speed governor).

Rating Guidelines

ISO Standard Power for continuous operation with 10% overload capability for 1 hour of 12.