



Germanischer Lloyd

Approval Certificate

Certificate No. **74016-09 HH**

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This is to certify that the undernoted engine manufacturer has been approved in accordance with the relevant requirements of the GL Approval System

Engine Manufacturer **AB Volvo Penta
41715 Göteborg, Sweden**

Place of engine built **Deutz AG
Köln-Porz (Eil), Germany**

Product **Diesel Engine**

Engine Series / Type **D5A-BTA**

Technical Data

No. of Cylinders	4	4	4	4	4	4	4
Cylinder Diameter [mm]	108	108	108	108	108	108	108
Stroke [mm]	130	130	130	130	130	130	130
Rated Power [kW/Cylinder]	22.75	25	25.75	27.5	29.5	24.25	26.25
Rated Speed [1/min]	1500	1800	1900	2100	2300	1500	1800
Max. Firing Pressure [bar]	129	129	129	129	129	129	129

Application **Propulsion Propulsion Propulsion Propulsion Propulsion Auxiliary Auxiliary**

Approval Standard **GL-Regulations for Mass Produced Engines, July 1987**

GL-Registration No. **SM - 310**

Approval Documents **08-109584, 78031/01**

This Certificate is valid from **2009-02-16 until 2014-03-03**

Hamburg, 2009-02-16

Germanischer Lloyd

K.-E. Beese

R. Michael

The latest edition of the General Terms and Conditions of Germanischer Lloyd is applicable. German law applies.