R. 436 a

t. 4c

3 1 MAR 1958

of writing report 14.1.58 Received London ..... Port Köln No. 319

y held at Köln-Deutz No. of visits 6 First date 4.11.57 Last date 15.11.57

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

ne of Ship H.D. 2337 7015 Owners Valcke Frères S.A., Antwerp
Contract No. if name unknown). (Or Consignees)

Built at – by – when – Yard No. –

xiliary Engines or Gas Turbines made at Köln-Deutz by Klöckner-Humboldt-Deutz AG when 11.57 Eng. Nos. 2149432-39

al No. of sets and description (including type name) one airless injection heavy oil engine A8M 428

TERNAL COMBUSTION RECIPROCATING ENGINES. No. of cylinders per engine 8 Dia. of cylinders 220 mm Stroke 280 mm

r 4 stroke cycle 4 Maximum approved BHP 310 at 600 RPM Corresponding MIP 6.56 kg/cm² Maximum pressure 60 kg/cm²

el Diesel Are cylinders arranged in Vee or other special formation? no If so, No. of

nkshafts per engine – Is engine of opposed piston type? no No. and type of mechanically driven scavenge pumps or blowers

r engine none No. of exhaust gas driven blowers or superchargers per engine none Is welded construction

d for: Bedplate? no Entablature? no Total Internal volume of crankcase (if 20 cu. ft. or over) 0.96 m³ No. and total area of

nkcase explosion relief devices 4 area 380 cm² Are flame guards or traps fitted? yes Cooling medium for: Cylinders water

stons – No. of attached pumps: F.W. cooling – S.W. cooling – Lubricating oil one How is engine started? with air

HAFTING. Is a damper or detuner fitted? yes No. of main bearings 9 Are bearings of ball or roller type? no Distance between

urponer edges of bearings in way of cranks 241 mm Crankshaft: Built, semi-built, solid. Material of crankshaft carbonsteel Approved

inimum tensile strength Y.P. 40 kg/mm² 60 kg/mm² Dia. of pins 130 mm Journals 150 mm Breadth of webs at mid throw 225 mm Axial

ickness 57 mm If shrunk, radial thickness around eyeholes – Dia. of flywheel 900 mm Weight 535 kg Are balance

eights fitted? no Total weight – Rad. of gyration – Dia. of flywheel shaft –

as each engine been tested in shop? yes How long at full power? 6 hours Was it tested with driven machinery attached? water brake Was the

overning tested and found satisfactory? yes Date of approval of torsional vibration characteristics (for engines of 150 BHP and over) in preparation

ate of approval of shafting 5.2.51 Identification marks on shafting LLOYD'S DSF. 2267 H.S. 26.2.57

articulars of driven machinery generator

rt and No. of Certificate for Starting Air Receivers –

UXILIARY GAS TURBINES. BHP per set – At – RPM of output shaft. Open or closed cycle? –

rrangement of turbines. HP drives – at – RPM HP gas inlet temp. – pressure –

IP " – at – " IP " " " – " –

A small diagram should be attached showing gas cycle) LP " – at – " LP " " " – " –

o. of air compressors per set – Centrifugal or axial flow type? – Material of turbine blades –

aterial of compressor blades – No. of air coolers per set – No. of heat exchangers per set – How are

urbines started? – Are the turbines operated in conjunction with free piston gas generators? –

otal No. of free piston gas generators – Dia. of working pistons – Dia. of compressor pistons – No. of double strokes

er minute at full power – Gas delivery pressure – Gas delivery temperature –

Have the turbines and attached equipment been tested in shop? – How long at full power? – Were they tested with driven machinery

ttached? – Particulars of gearing –

Date of approval of plans – Identification marks – Particulars of driven machinery –

ELECTRIC GENERATORS. Port and No. of Certificate for generators of 100 Kw. and over Augsburg Cert. No. 58/27

For generators under 100 Kw., has Makers' Certificate been obtained? – Are Certificates attached? yes

The foregoing description is correct ~~and the particulars are as approved for torsional vibration characteristics~~ (strike out words not applicable) Klöckner-Humboldt-Deutz Aktiengesellschaft

Manufacturer

Is this machinery duplicate of a previous case? yes If so, which? Engine No. 1803607-14, KLN.RPT. No. 80

GENERAL REMARKS. State if the machinery has been constructed under special survey in accordance with the Rules, approved plans and Secretary's letters. State quality of materials and workmanship. Where existing machinery is submitted for classification the circumstances should be explained as fully as possible.

This engine has been constructed under special survey of tested materials and is in accordance with the Secretary's letters, approved plans and Rules Requirements. The materials and workmanship are good and the engine, when tested in the shops under full and overload conditions, was found to function satisfactorily. The test bed trials in the shop have been carried out with uncooled fuel oil valves. This engine, in my opinion, is suitable for installation in a vessel classed with the Society.

Survey Fee DM 375.--
R.T. DM 100.--
Expenses DM 48.--
Date when a/c rendered 27.1.58 R 1603

Engineer Surveyor to Lloyd's Register

Declaration to be signed by Surveyor at fitting-out Port:— The above described machinery has been fitted on board the ..... at ..... in a proper manner and found satisfactory when tested on the (date) ..... under full working conditions.

Engineer Surveyor to Lloyd's Register

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