.R. 436 b

pt. 4c

31 MAR 1958

te of writing report 14.1.58 — Received London — Port Köln — No. 320

rvey held at Köln-Deutz — No. of visits 6 — First date 13.11.57 — Last date 27.11.57

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

ame of Ship H.D. 2737 7016 (Or Contract No. if name unknown). — Owners (Or Consignees) Valcke Frères S.A., Antwerp

hip Built at – by – when – Yard No. –

uxiliary Engines or Gas Turbines made at Köln-Deutz by Klöckner-Humboldt-Deutz AG when 11.57 Eng. Nos. 2149440-47

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

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

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

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

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

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

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

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

istons – 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

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

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

hickness 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 – water brake

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

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

Date of approval of shafting 5.2.51 Identification marks on shafting LLOYD'S DSF. 2263 H.S. 26.2.57 ✓

Particulars of driven machinery generator

ort and No. of Certificate for Starting Air Receivers –

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

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

(A small diagram should be attached showing gas cycle) IP „ – at – „ IP „ „ „ – „ –

LP „ – at – „ LP „ „ „ – „ –

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

Material 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? –

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

per 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 –

LECTRIC 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 (155)

Manufacturer

s 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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