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E.R. Pts.

5 AUG 1963

Rpt. 4c L.R. 960b

Date of writing report 26.7.63 Received London ..... Port Köln No. 841

Survey held at Köln-Deutz No. of visits 6 First date 10.4.63 Last date 17.5.63

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

Name of Ship B.N. 1.8458.0.0060 Owners (Or Consignees) Ad. Striiver, Hamburg; 311 M 43267/68
(Or Contract No. if name unknown).

Ship Built at – by Brodograd when – Yard No. 137

Auxiliary Engines ~~or Gas Turbines~~ made at Köln-Deutz by Klöckner-Humboldt-Deutz AG when 5.63 Eng. Nos. 3531906-13

Total No. of sets and description (including type name) one airless injection heavy oil A8M 528

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

2 or 4 stroke cycle 4 Maximum approved BHP ~~500~~ Service BHP 390 at ~~600~~ 750 RPM Corresponding MIP 6.6kg/cm2 Maximum pressure 73 kg/cm2

Fuel Diesel Are cylinders arranged in Vee or other special formation? no If so, No. of crankshafts per engine – Is engine of opposed piston type? no No. and type of mechanically driven scavenge pumps or blowers per engine – No. of exhaust gas driven blowers or superchargers per engine – Is welded construction used for: Bedplate? no Entablature? no Total internal volume of crankcase (if 20 cu. ft. or over) 0.96 m3 No. and total area of crankcase explosion relief devices 4, area 380 cm2 Are flame guards or traps fitted? yes Cooling medium for: Cylinders water Pistons – No. of attached pumps: F.W. cooling – one S.W. cooling – Lubricating oil one How is engine started? with air

SHAFTING. Is a damper or detuner fitted? yes No. of main bearings 9 Are bearings of ball or roller type? – Distance between inner edges of bearings in way of cranks 245.5 mm Crankshaft: Built, semi-built, solid. Material of crankshaft SM-steel Ck 45 Approved minimum tensile strength 70 kg/mm2 Dia. of pins 135 mm Journals 150 mm Breadth of webs at mid throw 230 mm Axial thickness 65 mm If shrunk, radial thickness around eyeholes – Dia. of flywheel 900 mm Weight 535 kg Are balance weights fitted? no Total weight – Rad. of gyration – Dia. of flywheel shaft – water brake 564 u
Has each engine been tested in shop? yes How long at full power? 6 hours Was it tested with driven machinery attached? Was the governing tested and found satisfactory? yes Date of approval of torsional vibration characteristics (for engines of 150 BHP and over) – 28/5/63
Date of approval of shafting 17.2.55 Identification marks on shafting LLOYD'S AUG AU 20 HKS 22.2.63 C 639/6384
Particulars of driven machinery unknown 23/9/63

Port and No. of Certificate for Starting Air Receivers –

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

Arrangement of turbines. (A small diagram should be attached showing gas cycle) HP drives – at – RPM HP gas inlet temp. – pressure –
IP " – at – " IP " " " – " –
LP " – at – " LP " " " – " –

No. 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 turbines 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 attached? – 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 –
For generators under 100 Kw., has Makers' Certificate been obtained? – Are Certificates attached? –

The foregoing description is correct and the particulars are as approved for torsional vibration characteristics (strike out words not applicable)

Klöckner-Humboldt-Deutz AG
Manufacturer

Is this machinery duplicate of a previous case? yes If so, which? KLN. Rpt. 840, Engine No. 3531898-905

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. This engine, in my opinion, is suitable for installation in a vessel classed with this Society.

PLEASE RETURN THIS REPORT WITH YOUR FIRST ENTRY.

Survey Fee DM. 588.-
Expenses DM. 60.-
Date when a/c rendered KLN. 6559 dd. 14.6.63

9 AUG 1963

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 M.t "R. T. Lorong" at TRO GIR in a proper manner and found satisfactory when tested on the (date) 10.3.1965 under full working conditions.

Engineer Surveyor to Lloyd's Register

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