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Date of writing report 2nd October, 1956 Received London 19 OCT 1956 Port of Augsburg No. 804

Survey held at Ulm No. of visits 2 First date 3rd Sept., Last date 15th September, 1956

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

Name of Ship - MARGRETHE ROBBERT Owners - (Or Consignees)
(Or Contract No. if name unknown).

~~Ship Entry~~ Engine ordered by: Ad. Strüver, Hamburg by - when 1956 Yard No. -

Auxiliary Engines or Gas Turbines made at Ulm (Donau) by Messrs. Klöckner-Humboldt-Deutz AG when 1956 Eng. Nos. 1592 527-28

Total No. of sets and description (including type name) F2M 417

INTERNAL COMBUSTION RECIPROCATING ENGINES. No. of cylinders per engine 2 Dia. of cylinders 120 mm Stroke 170 mm

2 or 4 stroke cycle 4 Maximum approved BHP 24 at 1000 RPM Corresponding MIP 7.5 kg/cm² Maximum pressure 70 kg/cm²

Fuel gas oil Are cylinders arranged in Vee or other special formation? - 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? - Total Internal volume of crankcase (if 20 cu. ft. or over) - No. and total area of

Crankcase explosion relief devices - Are flame guards or traps fitted? - Cooling medium for: Cylinders water

Pistons - No. of attached pumps: F.W. cooling 1 S.W. cooling - Lubricating oil 1 How is engine started? electr.

SHAFTING. Is a damper or detuner fitted? no No. of main bearings 2 Are bearings of ball or roller type? roller Distance between

inner edges of bearings in way of cranks 418 mm Crankshaft: Built, semi-built, solid. Material of crankshaft SM Steel Approved

minimum tensile strength 80 kg/mm² Dia. of pins 90 mm Journals 95/70 mm Breadth of webs at mid throw 120 mm Axial

thickness 54/90/54 If shrunk, radial thickness around eyeholes - Dia. of flywheel 512 mm Weight 228 kgs Are balance

weights fitted? yes Total weight 68 kgs Rad. of gyration 102 mm Dia. of flywheel shaft -

Has each engine been tested in shop? yes How long at full power? 4 h 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) not applicable

Date of approval of shafting 30.1.1951 Identification marks on shafting Lloyd's Aug. 20340/2 GH

Particulars of driven machinery - 10.9.56

-

Port and No. of Certificate for Starting Air Receivers -

23/11/56

AUXILIARY 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 " " " "

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 WERK ULM

Manufacturer

2.57

Is this machinery duplicate of a previous case? - If so, which? -

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 heavy oil auxiliary engine has been constructed under special survey in accordance with the requirements of the Rules and Regulations of this Society and otherwise with the approved plans. The material used in the construction is good and the workmanship was found to be satisfactory. The engine has been tested running on makers' test bed under full-, over-, and partial loads with satisfactory results. In my opinion the engine can be recommended to be fitted into a ship classed with this Society.

Survey Fee DM 80.-
Expenses DM 25.-
running test 30.- Total DM 135.-
Date when a/c rendered 12.10.1956

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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