Form Pt. 4c

Date of writing report 2nd July, 1958 | Received London 14 JUL 1958 | 15 JUN 1959 | Port of Augsburg | No. 1122

Survey held at Augsburg | No. of visits 16 | First date 7th March, | Last date 9th June, 1958

PLEASE RETURN THIS REPORT WITH YOUR FIRST ENTRY.

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

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

Ship Built at Gävle/Sweden by Gävle Varv when 1958 Yard No. 100

Auxiliary Engines or Gas Turbines made at Augsburg by Maschinenfabrik Augsburg-Nürnberg A.G. when 1958 Eng. Nos. 401 506-8

Total No. of sets and description (including type name) 3 x G5V23,5/33

INTERNAL COMBUSTION RECIPROCATING ENGINES. No. of cylinders per engine 5 Dia. of cylinders 235 mm Stroke 330 mm

2 or 4 stroke cycle 4 Maximum approved BHP 255 at 600 RPM Corresponding MIP 6,9 kg/cm^2 Maximum pressure 51 kg/cm^2

Fuel gas oil Are cylinders arranged in Vee or other special formation? no If so, No. of

crankshafts per engine - Is engine of opposed piston type? - 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? - Entablature? - Total internal volume of crankcase (if 20 cu. ft. or over) 1.120 m^3 No. and total area of

crankcase explosion relief devices 2 ; 81 cm^2 Are flame guards or traps fitted? - Cooling medium for: Cylinders water

Pistons - No. of attached pumps: F.W. cooling - S.W. cooling - Lubricating oil 1 4.3 m^3/h How is engine started? by air.

SHAFTING. Is a damper or detuner fitted? yes No. of main bearings 6 Are bearings of ball or roller type? no Distance between

inner edges of bearings in way of cranks 284 mm Crankshaft: ~~Built or semi-built~~ solid. Material of crankshaft S.M. Steel, C4o Approved

minimum tensile strength 55 kg/mm^2 Dia. of pins 152 mm Journals 152 mm Breadth of webs at mid throw 273 mm Axial

thickness 73,5 mm If shrunk, radial thickness around eyeholes - Dia. of flywheel 1200 mm Weight Are balance

weights fitted? no Total weight - Rad. of gyration - Dia. of flywheel shaft -

Has each engine been tested in shop? yes How long at full power? 4 hrs. Was it tested with driven machinery attached? yes Was the

governing tested and found satisfactory? yes Date of approval of torsional vibration characteristics (for engines of 150 BHP and over) 23.4.58

Date of approval of shafting 19.8.55 Identification marks on shafting LLOYD'S AUG 2999/7576 A 28.3.58 G.H.
LLOYD'S AUG 3000/7577 B 28.3.58 G.H.

Particulars of driven machinery 200 KVA; 120 volts, 66 A LLOYD'S AUG 3001/7578 A 28.3.58 G.H.

Port and No. of Certificate for Starting Air Receivers 1 x 125 ltrs. Augsburg Certificate 58/1195

AUXILIARY GAS TURBINES. BHP per set At RPM of output shaft. Open or closed cycle? 14.8.58

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 Hamburg Nos. 1819 MC, 1818, 1809

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)

Maschinenfabrik Augsburg-Nürnberg A.G.
Manufacturer

Is this machinery duplicate of a previous case? yes If so, which? Yard No. 99

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.*

These heavy oil auxiliary engines have been constructed under special survey in accordance with the requirements of the Rules and otherwise with the approved plans. The material used in the construction was tested and the workmanship was found satisfactory. The engines were tested running on makers' test bed under full-, over- and partial loads with satisfactory results. In myopinion the engines can be recommended for the notation ✠ L.M.C. (with date) when the whole machinery has been satisfactorily fitted on board.

ed trial 180.-
Survey Fee DM 975.-
haft Expenses 165.-
30.- Total DM 1.350.-

Date when a/c rendered 11.7.1958

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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