

Rpt. 4c

Date of writing report 19th Sept., 58

Received London

Port of Augsburg

No. 1160

Survey held at Augsburg

No. of visits 15

First date 6th June

Last date 24th July 58

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

Name of Ship --- Owners Seacrest Shipping Co., New York
(Or Contract No. if name unknown) (Or Consignees)
Ship Built at Gävle / Schweden by A/B Gävle Varv when 1958 Yard No. 101
Auxiliary Engines or Gas Turbines made at Augsburg by M. A. N. A.G. when 1958 Eng. Nos. 401 509 -11
Total No. of sets and description (including type name) 3 x G5V 23,5/33

INTERNAL COMBUSTION RECIPROCATING ENGINES. No. of cylinders per engine 5 Dia. of cylinders 335 mm Stroke 330 mm
2 or 4 stroke cycle 4 Maximum approved BHP 255 at 500 RPM Corresponding MIP 6.9 kg/cm² Maximum pressure 57 kg/cm²
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 m³ No. and total area of
crankcase explosion relief devices 2: 81 cm² each 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 How is engine started? by air
6,5 m³/h

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, semi-built, solid Material of crankshaft SM Steel C40 Approved
minimum tensile strength 55 kg/mm² 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 1100 kgs. 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 h 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) 23.4.1958
Date of approval of shafting 19.8.1958 Identification marks on shafting LLOYD'S AUG 3002 / 191 A 2.7.58 G.H.
3003 / 98560 2.7.58 G.H.
Particulars of driven machinery 3004 / 98570 2.7.58 G.H.

Port and No. of Certificate for Starting Air Receivers 1 x 125 ltrs. Report No. 58/1711

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

ELECTRIC GENERATORS. Port and No. of Certificate for generators of 100 Kw. and over Hamburg: 58/2293 + 2409 + X
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 Augsb.-Nürnberg A.G.

Manufacturer

Is this machinery duplicate of a previous case? yes If so, which? Yard Nos. 99 + 100

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 aux. 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 satisfactory. The engines were tested running on makers' test bed under full-, over- and partial loads with satisfactory results. In my opinion the engines can be recommended for the notation LMC (with date) when the whole machinery has been satisfactorily fitted on board.

Running test 300,--
Survey Fee DM 975,--
Expenses 120,--
Total DM 1.590,--
Date when a/c rendered 26.9.1958

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 --- under full working conditions.
at --- in a proper manner and found satisfactory when tested on the (date) ---

Engineer Surveyor to Lloyd's Register

PLEASE RETURN THIS REPORT
WITH YOUR FIRST ENTRY.

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