

Rpt. 4c

14 OCT 1957

Date of writing report 1/10-1957. Received London Port GOTHENBURG. No. 23585. Survey held at JÖNKÖPING. No. of visits 4. First date 14/6 Last date 24/9-1957.

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

Name of Ship (Or Contract No. if name unknown) Owners A/S Tanktransport, Norway. Ship Built at Gothenburg by A.-B. Götaverken when Yard No. 716. Auxiliary Engine made at Jönköping by A.-B. Jönköpings Motorfabrik when 1957 Eng. Nos. 3104. Total No. of sets and description (including type name) One diesel motor type Götaverken 300/450 G5.

INTERNAL COMBUSTION RECIPROCATING ENGINES. No. of cylinders per engine 5. Dia. of cylinders 300 mm. Stroke 450 mm. 2 or 4 stroke cycle 4. Maximum approved BHP 285 at 327 RPM. Corresponding MIP 6.5 kg/cm². Maximum pressure 49 kg/cm². Fuel Diesel 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. No. and type of mechanically driven scavenge pumps or blowers per engine. No. No. of exhaust gas driven blowers or superchargers per engine. None. Is welded construction used for: Bedplate? No. Entablature? No. Total Internal volume of crankcase (if 20 cu. ft. or over) 3.9 m³. No. and total area of crankcase explosion relief devices 4x119=476 cm². Are flame guards or traps fitted? Yes. Cooling medium for: Cylinders Fresh Water. Pistons. No. of attached pumps: F.W. cooling. S.W. cooling. Lubricating oil One. How is engine started? By compr. air.

SHAFTING. Is a damper or detuner fitted? No. No. of main bearings 6. Are bearings of ball or roller type? No. Distance between inner edges of bearings in way of cranks 378 mm. Crankshaft solid. Material of crankshaft S.M. Steel. Approved minimum tensile strength 44 kg/mm². Dia. of pins 190 mm. Journals 190 mm. Breadth of webs at mid throw 260 mm. Axial thickness 105 mm. If shrunk, radial thickness around eyeholes. Dia. of flywheel 1500 mm. Weight 3800 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? 6 hours. 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) 8.4.57. Date of approval of shafting 8.4.57. Identification marks on shafting LLOYD'S GOT NO. 1327 GU. 28.2.57. Particulars of driven machinery One 235 KVA generator.

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. LP at. 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) ARTBOLAGET JONKOPINGS MOTORFABRIK. Is this machinery similar to a previous case? Yes. If so, which? Öresundsvarvet 152. Gothenburg FE. Report No. 23168.

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 auxiliary engine has been built under Special Survey in accordance with the Rules, approved plans and Secretary's letters. The workmanship and material used are good. Certificate in respect of crank shaft is attached.

Survey Fee Kr. 460:- Expenses Kr. 78:- Date when a/c rendered 9/10-1957. 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 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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