

Rpt. 4c

28 JUL 1958

Date of writing report 2.7.58 Received London Port Köln No. 406 Survey held at Köln-Deutz No. of visits 4 First date 11.4.58 Last date 20.6.58

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

Name of Ship H.D. 2082 0479 Chopin Owners Ad. Strüver G.m.b.H., Hamburg (Or Contract No. if name unknown) (Or Consignees) No. 26348-49 Brodageelilste 152

Ship Built at Köln-Deutz by Klöckner-Humboldt-Deutz AG when 6.58 Eng. Nos. 2430330-35 Total No. of sets and description (including type name) one airless injection heavy oil V6M 536

INTERNAL COMBUSTION RECIPROCATING ENGINES. No. of cylinders per engine 6 Dia. of cylinders 270 mm Stroke 360 mm 2 or 4 stroke cycle 4 Maximum approved BHP 3.15 at 500 RPM Corresponding MIP 6.9 kg/cm2 Maximum pressure 55 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 none 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) 1.5 m3 No. and total area of crankcase explosion relief devices 3, area 285 cm2 Are flame guards or traps fitted? yes Cooling medium for: Cylinders water Pistons - No. of attached pumps: F.W. cooling - S.W. cooling - Lubricating oil one How is engine started? with air

SHAFTING. Is a damper or detuner fitted? no No. of main bearings 8 Are bearings of ball or roller type? no Distance between inner edges of bearings in way of cranks 278 mm Crankshaft: Built, semi-built, solid Material of crankshaft Carbon Steel Approved minimum tensile strength 55 kg/mm2 Dia. of pins 165 mm Journals 165 mm Breadth of webs at mid throw 300 mm Axial thickness 64.5 mm If shrunk, radial thickness around eyeholes - Dia. of flywheel 1000 mm Weight 1025 kg Are balance weights fitted? no Total weight - Rad. of gyration - Dia. of flywheel shaft - water brake Has each engine been tested in shop? yes How long at full power? 6 hours Was it tested with driven machinery attached? no governing tested and found satisfactory? yes Date of approval of torsional vibration characteristics (for engines of 150 BHP and over) 26.5.58 forw. to Strüver Hbg. Date of approval of shafting 26.5.50 Identification marks on shafting LLOYD'S KLN. 1633 H.D. 27.3.58 417N Particulars of driven machinery 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 - ,, 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 Aktiengesellschaft Manufacturer

Is this machinery duplicate of a previous case? no 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 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.

Survey Fee 425.- R.T. 100.- Expenses 53.- Date when a/c rendered A/C R 2106 18.7.58 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)

