

Rpt. 4c

Date of writing report 4.3.64

Received London

Port Hamburg

No. 13424

Survey held at Elmshorn

No. of visits See Rpt. 4b

First date

Last date

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

Name of Ship "JWTA MEGHNA" Owners Inland Water Transport Authority (Or Contract No. if name unknown) East Pakistan Ship Built at Elmshorn by Messrs. Kremer Sohn when 1964 Yard No. 1102 3454855/57 Auxiliary Engines or Gas Turbines made at Köln by Messrs. Deutz AG when 1963 Eng. Nos. 3454891/93 Total No. of sets and description (including type name) two oil engines, type A3M514

INTERNAL COMBUSTION RECIPROCATING ENGINES. No. of cylinders per engine 3 Dia. of cylinders 110 mm Stroke 140 mm 2 or 4 stroke cycle 4 Maximum approved BHP 41 at 1500 RPM Corresponding MIP Maximum pressure Fuel Are cylinders arranged in Vee or other special formation? 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) No. and total area of crankcase explosion relief devices Are flame guards or traps fitted? Cooling medium for: Cylinders Pistons No. of attached pumps: F.W. cooling S.W. cooling 1 Lubricating oil 1 How is engine started? one engine hand started and one engine electrically started

SHAFTING. Is a damper or detuner fitted? No. of main bearings Are bearings of ball or roller type? Distance between inner edges of bearings in way of cranks Crankshaft: Built, semi-built, solid Material of crankshaft Approved minimum tensile strength Dia. of pins Journals Breadth of webs at mid throw Axial thickness If shrunk, radial thickness around eyeholes Dia. of flywheel Weight Are balance weights fitted? Total weight Rad. of gyration Dia. of flywheel shaft Has each engine been tested in shop? How long at full power? Was it tested with driven machinery attached? Was the governing tested and found satisfactory? Date of approval of torsional vibration characteristics (for engines of 150 BHP and over) Date of approval of shafting Identification marks on shafting Particulars of driven machinery one 12 kW generator and one general service pump each set

Port and No. of Certificate for Starting Air Receivers

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 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? yes Are Certificates attached? Rpt. 13

The foregoing description is correct and the particulars are as approved for torsional vibration characteristics (strike out words not applicable)

Manufacturer

Is this machinery duplicate of a previous case? yes If so, which? Yard Nos. 1100 - 1101

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.

Survey Fee Expenses Date when a/c rendered

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 "JWTA MEGHNA" at Elmshorn in a proper manner and found satisfactory when tested on the (date) 17.1.64 under full working conditions.

Engineer Surveyor to Lloyd's Register

011544 - 011554 - 0026

