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t. 4c

of writing report

18.8.56

Received London

10 OCT 1956

Port

Köln

No. 152

held at

Köln-Deutz

No. of visits

4

First date

25.7.56

Last date

15.8.56

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

Name of Ship H.D.No. 20530639 Owners Ad. Strüver, Hamburg
 Contract No. if name unknown - (Or Consignees)
 Built at MARGRETHE ROBBERT by - when - Yard No. -
 Auxiliary Engines or Gas Turbines made at Köln-Deutz by Klöckner-Humboldt-Deutz when 8.56 Eng. Nos. 2111530-35
 Total No. of sets and description (including type name) One air less injection heavy oil A6M 517

INTERNAL COMBUSTION RECIPROCATING ENGINES. No. of cylinders per engine 6 Dia. of cylinders 130 mm Stroke 170 mm
 4 stroke cycle 4 Maximum approved BHP 128 at 1500 RPM Corresponding MI 7.18 kg/cm² Maximum pressure 70 kg/cm²
 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
 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) 180 ltrs. No. and total area of
 crankcase explosion relief devices none Are flame guards or traps fitted? no Cooling medium for: Cylinders water
 Pumps none No. of attached pumps: F.W. cooling - S.W. cooling one Lubricating oil one How is engine started? with air.

MATER
 Meter of **SHAFING.** Is a damper or detuner fitted? yes No. of main bearings 7 Are bearings of ball or roller type? no Distance between
 edges of bearings in way of cranks 2 137 mm Crankshaft: Built, semi-built, solid. Material of crankshaft Chrom. Molybd. Steel Approved
 minimum tensile strength 80 kg/mm² Dia. of pins 85 mm Journals 90 mm Breadth of webs at mid throw 130 mm Axial
 thickness 32.5 mm If shrunk, radial thickness around eyeholes - Dia. of flywheel 520 mm Weight 92 kg 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? water brake
 governing tested and found satisfactory? yes Date of approval of torsional vibration characteristics (for engines of 150 BHP and over) -
 Date of approval of shafting 21.3.51 Identification marks on shafting LLOYDS DSF. 17 H.S. 18.10.55
 Particulars of driven machinery -

MATER
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? - Are Certificates attached? -

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

Signature: Klöckner-Humboldt-Deutz Manufacturer
Aktiengesellschaft
 Is this machinery duplicate of a previous case? yes If so, which? Engine No. 1800221-26 DSF. RPT. 150

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 Rule Requirements. The material 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 DM 200.-
 Tests DM 100.-
 Expenses DM 30.-
 Date when a/c rendered 5.10.56 No. R.432

H. Jünggenann
 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.



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