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of writing report 20.2.62 Received London Port Köln No. 692
held at Köln-Deutz No. of visits 9 First date 30.8.61 Last date 14.11.61

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

me of Ship B.N. 1.8627.0.0010 Owners Ad. Strüver, Hamburg; 311 M 37842-51
Contract No. if name unknown (Or Consignees)

ip Built at by when Yard No.
Auxiliary Engines or Gas Turbines made at Köln-Deutz by Klöckner-Humboldt-Deutz when 11.61 Eng. Nos. 2998675-680
Total No. of sets and description (including type name) one airless injection heavy oil BV6M 536

INTERNAL COMBUSTION RECIPROCATING ENGINES. No. of cylinders per engine 6 Dia. of cylinders 270 mm Stroke 360 mm
or 4 stroke cycle 4 Service BHP 260 Maximum approved BHP 600 at 500 RPM Corresponding MIP 9.94 kg/cm² Maximum pressure 64 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 No. of exhaust gas driven blowers or superchargers per engine one 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? Distance between
inner edges of bearings in way of cranks 284 mm Crankshaft: Built, semi-built, solid Material of crankshaft SM-steel Approved
Minimum tensile strength 36 kg/mm² Y.P. 36 kg/mm² Dia. of pins 165 mm Journals 165 mm Breadth of webs at mid throw 300 mm Axial
thickness 75 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? Was the
governing tested and found satisfactory? yes Date of approval of torsional vibration characteristics (for engines of 150 BHP and over) 22.9.59
Date of approval of shafting 18.2.55 Identification marks on shafting LLOYD'S DSE 49 HS 24.8.61
Particulars of driven machinery unknown

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
(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)

Is this machinery duplicate of a previous case? yes If so, which? KLN. Rpt. 662, Engine No. 2829393-98

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 Society'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.
This engine is supercharged with one exhaust gas driven blower No. 43835.

Survey Fee DM 650.-
Expenses RT DM 100.-
Date when a/c rendered A/C KLN. 5085 dd. 29.12.61

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
at 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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