

of writing report.....	20.2.62	Received London.....	Port.....	Köln	No.....	691
ey held at.....	Köln-Deutz	No. of visits.....	8	First date.....	30.8.61	Last date.....
						13.12.61

me of Ship..... B.N. 1.8627.0.0009..... Owners Ad. Strüver, Hamburg: 311M37842-51
r Contract No. if name unknown). (Or Consignees)
ip Built at..... -..... by..... -..... when..... -..... Yard No.
xiliary Engines or Gas Turbines made at..... Köln-Deutz..... by Klöckner-Humboldt-Deutz AG when 12.61 Eng. Nos. 2998669-74
tal 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... 560 at 500 RPM Corresponding MIP... 9.94 kg/cm Maximum pressure... 64 kg/cm²
el... Diesel Are cylinders arranged in Vee or other special formation? no If so, No. of
mkshafts per engine... - Is engine of opposed piston type? no No. and type of mechanically driven scavenge pumps or blowers
r engine... - No. of exhaust gas driven blowers or superchargers per engine... one Is welded construction
ed for: Bedplate? no Entablature? no Total internal volume of crankcase (if 20 cu. ft. or over)... 1.5 m³ ✓ No. and total area of
ankcase explosion relief devices 3, area 285 cm² Are flame guards or traps fitted? yes Cooling medium for: Cylinders... water
istons... - No. of attached pumps: F.W. cooling... - S.W. cooling... - Lubricating oil... one How is engine started? with air

HAFTING. Is a damper or detuner fitted? no No. of main bearings 8 Are bearings of ball or roller type? - Distance between
ner edges of bearings in way of cranks 284 mm Crankshaft: Built, semi-built, solid Material of crankshaft SM-steel Approved
Y.P. 36 kg/mm² Minimum tensile strength 65 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? 8 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 KLN. 613 H.L. 6.10.61
Particulars of driven machinery unknown

Port and No. of Certificate for Starting Air Receivers

[illegible]

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. 2820393-98

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 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.

This engine is supercharged with one exhaust gas driven blower No. 43833.

Survey Fee	DM	650.-
RI	DM	100.-
Expenses	DM	75.-

Date when a/c rendered..... A/C KLN 5088, 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

011316-011329-0259