

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office **HAMBURG**

Date of writing Report 22.7.37 19 When handed in at Local Office 19 Port of HAMBURG

No. in Survey held at Berlin & Kiel Date, First Survey 22.12.36 Last Survey 9.7.37 19  
 Reg. Book. (Number of Volls 18) Tons { Gross 6768  
23045 on the Steel Sc. Sr. "Coimbra" Net 3976

Built at Kiel By whom built Howaldtswerke A.G. Yard No. 756 When built 1937

Engines made at Berlin-Tege By whom made Rheinmetall-Borsig A.G. Engine No. 8177 When made 1937

Boilers made at Kiel By whom made Howaldtswerke A.G. Boiler No. 1515-6-7 When made 1937

Indicated Registered Horse Power 2800 Owners Standard Transportation Co, Hongkong Port belonging to London

Nom. Horse Power as per Rule 550 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

Trade for which Vessel is intended Tanker 22116-474-475

ENGINES, &c.—Description of Engines Double Compound, Lentz type No. 12 Revs. per minute 80

Dia. of Cylinders 2\*560 mm, 2\*1200 mm Length of Stroke 1200 mm No. of Cylinders 4 No. of Cranks 4

Crank shaft, dia. of journals as per Rule 366 mm Crank pin dia. 380 mm Crank webs Mid. length breadth 675 mm Thickness parallel to axis 230 mm  
as fitted 380 mm Mid. length thickness 230 mm shrunk Thickness around eye-hole 178 mm

Intermediate Shafts, diameter as per Rule 350 mm Thrust shaft, diameter at collars as per Rule 366 mm  
as fitted 365 mm as fitted 380 mm

Tube Shafts, diameter as per Rule 418 mm Screw Shaft, diameter as per Rule 388 mm Is the tube shaft fitted with a continuous liner yes  
as fitted 418 mm as fitted 418 mm

Bronze Liners, thickness in way of bushes as per Rule 19.5 mm Thickness between bushes as per Rule 14.7 mm Is the after end of the liner made watertight in the  
as fitted 22.5 mm as fitted 17.5 mm

propeller boss yes If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner yes

If the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive yes

If two liners are fitted, is the shaft lapped or protected between the liners yes Is an approved Oil Gland or other appliance fitted at the after end of the tube yes

shaft no If so, state type yes Length of Bearing in Stern Bush next to and supporting propeller 1810 mm

Propeller, dia. 5334 mm Pitch 4850 mm No. of Blades 4 Material Bronze whether Moveable yes Total Developed Surface 24.08 sq. feet

Feed Pumps worked from the Main Engines, No. none Diameter yes Stroke yes Can one be overhauled while the other is at work yes

Bilge Pumps worked from the Main Engines, No. none Diameter yes Stroke yes Can one be overhauled while the other is at work yes

Feed Pumps { No. and size 2 of 300x210 mm 2 injectors 11.4 mm each Pumps connected to the { No. and size 1 of 180x60 mm 45 length, 2 of 320x220 mm 105 tons each  
 How driven steam steam Main Bilge Line How driven duplex steam duplex steam

Ballast Pumps, No. and size 2 of 560 mm 3 of 100x180 mm Lubricating Oil Pumps, including Spare Pump, No. and size yes

Are two independent means arranged for circulating water through the Oil Cooler yes Suctions, connected to both Main Bilge Pumps and Auxiliary

Bilge Pumps;—In Engine and Boiler Room Eng. Room: 3\*85 mm Boiler Room: 3\*85 mm

In Pump Rooms Forw: 2\*70 mm Midship: 3\*65 mm In Holds, &c. Cargo hold: 2\*70 mm Chain Locker: 1\*65 mm Forw. Cofferdam: 2\*65 mm Forw. Store room: 2\*65 mm

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1\*260 mm Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1\*130 mm

Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes yes

Are the Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges yes

Are all Sea Connections fitted direct on the skin of the ship yes Are they fitted with Valves or Cocks valves and cocks

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates yes Are the Overboard Discharges above or below the deep water line above

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel yes Are the Blow Off Cocks fitted with a spigot and brass covering plate yes

What Pipes pass through the bunkers heating coils How are they protected yes

What pipes pass through the deep tanks cargo lines Have they been tested as per Rule yes

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes

Is the arrangement of Valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery spaces, or from one compartment to another yes Is the Shaft Tunnel watertight mach. aft Is it fitted with a watertight door yes worked from yes

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 780 m<sup>2</sup> 83934

Is Forced Draft fitted yes No. and Description of Boilers 3 Scotch Marine 3815 Working Pressure 228 lb.

IS A REPORT ON MAIN BOILERS NOW FORWARDED? yes

IS A DONKEY BOILER FITTED? no If so, is a report now forwarded? yes

Is the donkey boiler intended to be used for domestic purposes only yes

PLANS. Are approved plans forwarded herewith for Shafting 26.8.36 Main Boilers 12.6.36 Auxiliary Boilers yes Donkey Boilers yes  
 (If not state date of approval)

Superheaters 18.8.36 General Pumping Arrangements 8.10.36 16.12.36 (2) Oil fuel Burning Piping Arrangements 4.2.37

## SPARE GEAR.

Has the spare gear required by the Rules been supplied yes

State the principal additional spare gear supplied 1/2 crankshaft, 2 piston rods, 1 set of 1 piston rings, 3/2 bottom end brasses, 1/2 crosshead brasses, 1 set of coupling bolts, 1 TS with liner, 2 propeller blades, a number of suction and delivery valves of each type of pumps (also for cargo & stripping pumps), 1 impeller shaft for service pump.

\* Please see description of pumps attached hereto!

The foregoing is a correct description,

Howaldtswerke A.G.

*J. J. J. J.*

Manufacturer.

(1/2) W21-0214



© 2019

Lloyd's Register Foundation



Description of cargo oil pumps:  
(all steam driven)

Item	Dimensions	Capacity
3 main cargo oil pumps	2 x $\frac{480 \times 360}{500}$ m	350 m <sup>3</sup> /h each
3 summer tank pumps	2 x $\frac{400 \times 280}{450}$ m	250 " "
2 stripper pumps.	2 x $\frac{320 \times 220}{300}$ m	90 " "

2001/2/2

W21-0214(2/2)