

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Date of writing Report 6<sup>TH</sup> AUGUST 1927 When handed in at Local Office

Port of LENINGRAD 2 SEP 1927

No. in Survey held at LENINGRAD

Date, First Survey 11<sup>TH</sup> MARCH 1926 Last Survey 4<sup>TH</sup> AUGUST 1927

Reg. Book.

(Number of Visits 85)

on the 9<sup>TH</sup> TOVARISTCH STALIN

Built at LENINGRAD By whom built BALTIC SHIPBUILDING & ENG<sup>G</sup> WORKS Yard No. 166 Tons { Gross Net } When built 1927  
 Engines made at LENINGRAD By whom made Do Do Engine No. 166 when made 1927  
 Boilers made at LENINGRAD By whom made Do Do Boiler No. 166 when made 1927  
 Registered Horse Power Owners SOVIET MERCANTILE FLEET Port belonging to LENINGRAD  
 Nom. Horse Power as per Rule 192 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted YES  
 Trade for which Vessel is intended TIMBER CARRYING

ENGINES, &c. Description of Engines STEAM INVERTED RECIPROCATING Triple. Revs. per minute 90  
 Dia. of Cylinders 150 x 740 x 1230 Length of Stroke 900 mm No. of Cylinders 3 No. of Cranks 3  
 Crank shaft, dia. of journals as per Rule 243 mm as fitted 250 mm Crank pin dia. 250 mm Crank webs Mid. length breadth 278 mm Thickness parallel to axis shrunk Mid. length thickness 160 mm Thickness around eye-hole  
 Intermediate Shafts, diameter as per Rule 231.4 mm as fitted 235 mm Thrust shaft, diameter at collar as per Rule 243 mm as fitted 250 mm  
 Tube Shafts, diameter as per Rule as fitted Screw Shaft, diameter as per Rule 270.4 mm as fitted 285 mm Is the screw shaft fitted with a continuous liner No 2 Lines  
 Bronze Liners, thickness in way of bushes as per Rule 16 mm as fitted 17 mm FROM PLAN Thickness between bushes as per Rule Is the after end of the liner made watertight in the 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  
 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  
 If two liners are fitted, is the shaft lapped or protected between the liners SHAFT PAINTED BETWEEN LINERS Is an approved Oil Gland or other appliance fitted at the after end of the tube shaft NONE Length of Bearing in Stern Bush next to and supporting propeller 1200 mm  
 Propeller, dia. 3900 mm Pitch 3300 mm No. of Blades 4 Material C.S. whether Moveable SOLID Total Developed Surface 5.06 sq. ft.  
 Feed Pumps worked from the Main Engines, No. TWO Diameter 78 mm Stroke 435 mm Can one be overhauled while the other is at work YES  
 Bilge Pumps worked from the Main Engines, No. TWO Diameter 78 mm Stroke 435 mm Can one be overhauled while the other is at work YES  
 Feed Pumps No. and size ONE, DUPLEX 7 1/2 x 5 x 6 Pumps connected to the No. and size TWO, BILGE 9 x 7 x 8, BALLAST 10 x 8 1/2 x 18 How driven STEAM CYLINDERS Main Bilge Line How driven STEAM CYLINDERS  
 Ballast Pumps, No. and size ONE 100 TON 10 x 8 1/2 x 18 Lubricating Oil Pumps, including Spare Pump, No. and size  
 Are two independent means arranged for circulating water through the Oil Cooler Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room ENGINE ROOM 4 @ 100 mm, BOILER ROOM 1 @ 100 mm & TUNNEL WELL 100 mm DIA  
 In Holds, &c. AFT HOLD 4 @ 100 mm, FORWARD HOLD 2 @ 100 mm DIA

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1 @ 170 mm DIA Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 2 @ 100 mm DIA 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 NEAR 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 BOTH  
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates SPINDLES EXTENDED Are the Overboard Discharges above or below the deep water line  
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Are the Blow Off Cocks fitted with a spigot and brass covering plate YES  
 What Pipes are carried through the bunkers SANITARY & AIR PIPES & SCUPPERS How are they protected STEEL CASINGS  
 What pipes pass through the deep tanks NONE Have they been tested as per Rule  
 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 YES Is it fitted with a watertight door YES worked from MAIN DECK

MAIN BOILERS, &c.—(Letter for record 5) Total Heating Surface of Boilers 258 sq. Mt. 2754 sq. ft. 185 sq. ft.  
 Is Forced Draft fitted YES No. and Description of Boilers TWO MARINE RETURN TUBE Working Pressure 13 kg/cm<sup>2</sup>  
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? YES  
 IS A DONKEY BOILER FITTED? NONE If so, is a report now forwarded?  
 PLANS. Are approved plans forwarded herewith for Shafting 3/6/25 Main Boilers 3/6/25 Auxiliary Boilers Donkey Boilers  
 Superheaters 7/5/26 General Pumping Arrangements 17/6/26 Oil fuel Burning Piping Arrangements

SPARE GEAR. State the articles supplied:—

2, each Connecting rod top end bolts, bottom end bolts, main bearing bolts.  
 1, set each Coupling bolts for Crank shaft and propeller shaft.  
 1, set each Feed pump and Bilge pump valves and Piston springs  
 A quantity of assorted bolts & nuts and rim of various sizes.  
 1, Crank shaft, 1 Propeller, 1 pair of connecting rod braces, 1 set of link braces.  
 1 Eccentric shaft complete suitable for H.P. or L.P. valves, 1 Eccentric shaft complete for L.P. cylinder  
 H.P. L.P. & L.P. valve spindles, 1 set of boiler check valves, 2 Dry. Boiler tubes.  
 3 Dry each Tubes for main and auxiliary condensers.  
 1 set of springs for Boiler safety valves & cylinder escape valves.  
 Items mentioned will be supplied on vessels returning to Leningrad.

The foregoing is a correct description,

M. Pyrepobchey

Manufacturer.



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