

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

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Date of writing Report *Jan 27 1928* When handed in at Local Office *Jan 28 1928* Port of *Helsingborg*
 No. in Survey held at *Helsingborg* Date, First Survey *Dec. 19 1925* Last Survey *Jan. 23 1928*
 Reg. Book. *Suppl.* (Number of Visits *60*) Gross *1456.65*
 2023 on the *Single Screw Steel Steamer "NEVA"* Tons *Net 796.08*
 Built at *Helsingborg* By whom built *Helsingborgs Varfs & Sletten A.-B.* Yard No. *46* When built *1928*
 Engines made at *Helsingborg* By whom made *Helsingborgs Varfs & Sletten A.-B.* Engine No. *22* when made *1928*
 Boilers made at *Helsingborg* By whom made *Helsingborgs Varfs & Sletten A.-B.* Boiler No. *113 & 114* when made *1928*
 Registered Horse Power Owners *Aktiebolaget Transmarin* Port belonging to *Helsingborg*
 Nom. Horse Power as per Rule *145* ✓ Is Refrigerating Machinery fitted for cargo purposes *No* Is Electric Light fitted *Yes*
 Trade for which Vessel is intended *✓*

Engines, &c.—Description of Engines *Triple expansion* ✓ Revs. per minute *104*
 Dia. of Cylinders *18 1/8 - 27 1/2 - 46 7/8* Length of Stroke *27 9/16* ✓ No. of Cylinders *3* ✓ No. of Cranks *3* ✓
 Crank shaft, dia. of journals *as per Rule 231 mm* Crank pin dia. *238 mm* ✓ Crank webs Mid. length breadth *✓* Thickness parallel to axis *155 mm* ✓
 as fitted *234 mm* Mid. length thickness *✓* Thickness around eye-hole *106 mm* ✓
 Intermediate Shafts, diameter *as per Rule 220 mm* Thrust shaft, diameter at collars *as per Rule 231 mm*
 as fitted *222 mm* as fitted *234 mm* ✓
 Tube Shafts, diameter *as per Rule 273 mm (Ice sh)* tube } shaft fitted with a continuous liner }
 as fitted *276 mm* Is the screw }
 Bronze Liners, thickness in way of bushes *as per Rule 276 mm* Thickness between bushes *as per Rule 276 mm* Is the after end of the liner made watertight in the
 as fitted *✓* Is the after end of the liner made watertight in the
 propeller boss *✓* 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 *✓* Is an approved Oil Gland or other appliance fitted at the after
 end of the tube shaft *Yes, Federvall's Patent* ✓ Length of Bearing in Stern Bush next to and supporting propeller *1200 mm* ✓
 Propeller, dia. *4000 mm* Pitch *3125 mm* No. of Blades *4* ✓ Material *Steel* whether Movable *No* ✓ Total Developed Surface *57.26 sq. feet*
 Feed Pumps worked from the Main Engines, No. *2* ✓ Diameter *70 mm* Stroke *350 mm* Can one be overhauled while the other is at work *Yes* ✓
 Bilge Pumps worked from the Main Engines, No. *2* ✓ Diameter *80 mm* Stroke *350 mm* Can one be overhauled while the other is at work *Yes* ✓
 Feed Pumps { No. and size *1. 152 x 102 x 150 mm* Dbl. ✓ Pumps connected to the { No. and size *1. 190 x 127 x 150 mm* Dbl. ✓
 How driven *By steam* ✓ Main Bilge Line { How driven *By steam* ✓
 Ballast Pumps, No. and size *1. 190 x 130 x 150 mm* Dbl. ✓ Lubricating Oil Pumps, including Spare Pump, No. and size *✓*
 " *also connected to main bilge line* ✓ Oil Cooler *✓* Suctions, connected to both Main Bilge Pumps and Auxiliary
 Are two independent means arranged for circulating water through the Oil Cooler *✓*
 Bilge Pumps;—In Engine and Boiler Room *3. 2 1/2"* 1. in tunnel well *2 1/2"*
 In Holds, &c. *2 in each hold 3"* ✓

Main Water Circulating Pump Direct Bilge Suctions, No. and size *1. 4"* ✓ Independent Power Pump Direct Suctions to the Engine Room Bilges,
 No. and size *1. 3 1/2"* 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 *Both* ✓
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates *✓* 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 are carried through the bunkers *Bottom tank air pipes* ✓ How are they protected *By steel* ✓
 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 *upper eng. platform*

MAIN BOILERS, &c.—(Letter for record *S.*) Total Heating Surface of Boilers *2337 sq feet*
 Is Forced Draft fitted *No* ✓ No. and Description of Boilers *2. Multitubular* ✓ Working Pressure *200 lbs.* ✓
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? *Yes* ✓
 IS A DONKEY BOILER FITTED? *No* ✓ If so, is a report now forwarded? *✓*

PLANS. Are approved plans forwarded herewith for Shafting *21.10.26* Main Boilers *25.2.26* Auxiliary Boilers *✓* Donkey Boilers *✓*
 (If not state date of approval)
 Superheaters *No plans submitted* General Pumping Arrangements *19.11.26* Oil fuel Burning Piping Arrangements *✓*

SPARE GEAR. State the articles supplied.—*2 connecting rod top-end bolts and nuts.* ✓
2 connecting rod bottom-end bolts and nuts. ✓
2 main bearing bolts and nuts. ✓
1 set of coupling bolts with nuts ✓
1 set of bilge and feed pumps valves. 1 set of feed check valves ✓
1 set of piston rings for all main engine cylinders. (Common springs not used). ✓
A number of cylinder cover studs and jinking bolts ✓
A quantity of assorted bolts and nuts. Iron of various sizes. ✓
10 ordinary boiler tubes. 12 condenser tubes. ✓
1 propeller ✓

The foregoing is a correct description,
 Helsingborgs Varfs & Sletten Aktiebolag

D. A. Thompson

Manufacturer.



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