

Rpt. 4.
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No. 5736
43131

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

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Date of writing Report Oct. 1st 1942 When handed in at Local Office Oct. 1st 1942 Port of MONTREAL, QUE.
No. in Survey held at MONTREAL, QUE. Date, First Survey 3rd June, 1942 Last Survey 24th August 1942
Reg. Book. (Number of Visits.....)
on the
Built at SOUTH PORTLAND, ME. By whom built TODD-BATH SHIPBUILDING COMPANY 750 Can Angel Yard No. Tons {Gross
Engines made at LACHINE, P. Q. By whom made DOMINION ENGINEERING WORKS LTD Engine No. 48 When made 1942
Boilers made at By whom made Boiler No. When made
Registered Horse Power Owners Port belonging to
Nom. Horse Power as per Rule 504 505 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 76
Dia of Cylinders 24 1/2" x 37" x 70" Length of Stroke 48 No. of Cylinders 3 No. of Cranks 3
Crank shaft, dia. of journals as per Rule 13.99" Crank pin dia. 14 1/2" Mid. length breadth - Thickness parallel to axis 9" & 9 1/2" L.P.
as fitted 14 1/2" Crank webs - shrunk Thickness around eye-hole 7.125
Intermediate Shafts, diameter as per Rule 13.33" Thrust shaft, diameter at collars as per Rule 13.99"
as fitted 13.5" as fitted 14.25"
Tube Shafts, diameter as per Rule - Screw Shaft, diameter as per Rule 14.87"
as fitted - as fitted 15.25" Is the screw shaft fitted with a continuous liner { Yes
as per Rule .75" as per Rule .565"
Bronze Liners, thickness in way of bushes as fitted .78125" Thickness between bushes as fitted .68" 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. Solid
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 Tight fit
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. No If so, state type - Length of Bearing in Stern Bush next to and supporting propeller 61"
Propeller, dia. 18'-6" Pitch 16'-0" No. of Blades 4 Material Bronze whether Moveable Solid Total Developed Surface 117 sq. ft.
Feed Pumps worked from the Main Engines, No. None Diameter - Stroke - Can one be overhauled while the other is at work -
Bilge Pumps worked from the Main Engines, No. Two Diameter 4 1/2" Stroke 26" Can one be overhauled while the other is at work Yes
Feed {No. and size
Pumps {How driven
Pumps connected to the {No. and size
Main Bilge Line {How driven
Ballast Pumps, No. and size 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
In Pump Room In Holds, &c.

Main Water Circulating Pump Direct Bilge Suctions, No. and size Independent Power Pump Direct Suctions to the Engine Room Bilges,
No. and size Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes
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
Are all Sea Connections fitted direct on the skin of the ship Are they fitted with Valves or Cocks
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
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
What Pipes pass through the bunkers How are they protected
What pipes pass through the deep tanks 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
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 Is the Shaft Tunnel watertight Is it fitted with a watertight door worked from

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 7140 square feet
Which Boilers are fitted with Forced Draft All three Which Boilers are fitted with Superheaters All three
No. and Description of Boilers 3 Single Ended Multitubular Working Pressure 220 lbs. per square inch

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes
IS A DONKEY BOILER FITTED? No If so, is a report now forwarded? - -
Can the donkey boiler be used for domestic purposes only - -

PLANS. Are approved plans forwarded herewith for Shafting Main Boilers Auxiliary Boilers Donkey Boilers
(If not state date of approval)
Superheaters General Pumping Arrangements Oil fuel Burning Piping Arrangements

SPARE GEAR.

Has the spare gear required by the Rules been supplied
State the principal additional spare gear supplied

The foregoing is a correct description
Dominion Engineering Works Ltd Manufacturer.
per H. Van Ratten

