

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

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Date of writing Report 4-6-1929. When handed in at Local Office London to Port of London

No. in Survey held at London. Date, First Survey 18-12-28 Last Survey 4-6-1929
 Reg. Book. on the Ferry Steamer "B. L. NAIRN" (Number of Visits 36)

Built at London. By whom built Calidon S.S. & E. Co. Ltd. Yard No. 330 Tons 395.5
 Gross 395.5
 Net 171

Engines made at do By whom made do Engine No. 530 when made 1929

Boilers made at do By whom made do Boiler No. 530 when made 1929

Registered Horse Power 79.114 Owners Trustees of the Harbour of London. Port belonging to London

Nom. Horse Power as per Rule 79.114 Is Refrigerating Machinery fitted for cargo purposes do Is Electric Light fitted Yn

Trade for which Vessel is intended Lay Ferry Service

ENGINES, &c.—Description of Engines Twin Diagonal Compound. Revs. per minute 40

Dia. of Cylinders 18" 34" Length of Stroke 42" No. of Cylinders 4 No. of Cranks 4

Crank shaft, dia. of journals as per Rule 8 5/8" Crank pin dia. 7" Crank webs Mid. length breadth Thrust shaft, diameter at collars as per Rule
as fitted 8 5/8" Mid. length thickness as fitted

PADDLE Intermediate Shafts, diameter as per Rule 8.16" as fitted 8 1/4"

Tube Shafts, diameter as per Rule as fitted Screw Shaft, diameter as per Rule as fitted Is the { tube screw } shaft fitted with a continuous liner { Yn }

Bronze Liners, thickness in way of bushes as per Rule as fitted Thickness between bushes as per Rule as fitted Is the after end of the liner made watertight in the propeller boss Yn
 If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner Yn
 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 Yn
 If two liners are fitted, is the shaft lapped or protected between the liners Yn Is an approved Oil Gland or other appliance fitted at the after end of the tube shaft Yn

Propeller, dia. Yn Pitch Yn No. of Blades Yn Material Yn whether Moveable Yn Total Developed Surface Yn sq. feet

Feed Pumps worked from the Main Engines, No. Yn Diameter Yn Stroke Yn Can one be overhauled while the other is at work Yn

Bilge Pumps worked from the Main Engines, No. Yn Diameter Yn Stroke Yn Can one be overhauled while the other is at work Yn

Feed Pumps { No. and size one 5x7x12" Pumps connected to the { No. and size 2 - one 4x6x12", one 5x4 1/2 x 12"
 How driven Steam Main Bilge Line { How driven Steam

Ballast Pumps, No. and size one Drydock 7" bore Lubricating Oil Pumps, including Spare Pump, No. and size Yn

Are two independent means arranged for circulating water through the Oil Cooler Yn Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room two - 2"
 In Holds, &c. two - 2", one - 2 1/2"
no 1. 2" 26. 2 2" no 3 2 1/2"

Main Water Circulating Pump Direct Bilge Suctions, No. and size 5" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size one - 2 1/2" Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes Yn

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 Yn

Are all Sea Connections fitted direct on the skin of the ship Yn 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 Yn 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 Yn Are the Blow Off Cocks fitted with a spigot and brass covering plate Yn

What Pipes pass through the bunkers none How are they protected Yn

What pipes pass through the deep tanks Yn Have they been tested as per Rule Yn

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

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 Yn Is the Shaft Tunnel watertight none Is it fitted with a watertight door Yn worked from Yn

MAIN BOILERS, &c.—(Letter for record S.) Total Heating Surface of Boilers 1470 sq ft

Is Forced Draft fitted Yn No. and Description of Boilers one S.E. Working Pressure 120 lbs.

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yn

IS A DONKEY BOILER FITTED? Yn If so, is a report now forwarded? Yn

PLANS. Are approved plans forwarded herewith for Shafting Yn Main Boilers Yn Auxiliary Boilers Yn Donkey Boilers Yn

(If not state date of approval)

Superheaters Yn General Pumping Arrangements Yn Oil fuel Burning Piping Arrangements Yn

SPARE GEAR. State the articles supplied:—two bottom end bolts & nuts, two top end bolts & nuts, two main bearing bolts & nuts, one set fuel pump valves, one set bilge pump valves, 12 Condenser tubes, 24 Condenser journals, one set of gibbs, assorted bolts, nuts & iron.

The foregoing is a correct description,
 FOR AND ON BEHALF OF
 THE CALEDON SHIPBUILDING & ENGINEERING CO. LD.
J. Deane SECRETARY

Manufacturer.



