

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

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Date of writing Report 16-12-1930 When handed in at Local Office 16-12-1930 Port of Aberdeen

No. in Survey held at Aberdeen Date, First Survey 18-6-30 Last Survey 12-12-1930  
 Reg. Book. "KINI" (Number of Visits 30)

Built at Aberdeen By whom built J. Lewis & Sons Ltd. Yard No. 121 Tons Gross 1388.44  
 Engines made at Aberdeen By whom made J. Lewis & Sons Ltd. Engine No. 201 when made 1930  
 Boilers made at Aberdeen By whom made J. Lewis & Sons Ltd. Boiler No. 164-5 when made 1930  
 Registered Horse Power 165 Owners Union Steamship Co. of New Zealand Ltd. Port belonging to Dunedin. N.Z.  
 Nom. Horse Power as per Rule 165 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 105

Dia. of Cylinders 15 3/4 - 27 - 44 1/2 Length of Stroke 33" No. of Cylinders 3 No. of Cranks 3

Crank shaft, dia. of journals 8.88" as per Rule 8.88" Crank pin dia. 9 1/8" Crank webs Mid. length breadth 13" Thickness parallel to axis 6 1/8"  
 as fitted 9 1/8" Mid. length thickness 6 1/8" shrunk Thickness around eye-hole 3 1/4"

Intermediate Shafts, diameter 8.47" as per Rule 8.47" Thrust shaft, diameter at collars 8.88" as per Rule 8.88"  
 as fitted 8.47" as fitted 9 1/8"

Tube Shafts, diameter 9.43" as per Rule 9.43" Is the tube shaft fitted with a continuous liner yes  
 as fitted 9 1/8" as fitted 9 1/8"

Bronze Liners, thickness in way of bushes 5.84" as per Rule 5.84" Thickness between bushes 4.38" as per Rule 4.38" Is the after end of the liner made watertight in the  
 as fitted 5" as fitted 9 1/8"

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 3'-3"

Propeller, dia. 11'-6" Pitch 12'-9" No. of Blades 4 Material C.I. whether Moveable no Total Developed Surface 52 sq. feet

Feed Pumps worked from the Main Engines, No. 2 Diameter 3" Stroke 16 1/2" Can one be overhauled while the other is at work yes  
 Bilge Pumps worked from the Main Engines, No. 2 Diameter 3" Stroke 16 1/2" Can one be overhauled while the other is at work yes

Feed Pumps { No. and size Two 6" x 8 1/2" x 13" Weirs. + Pumps connected to the { No. and size One 8" x 9" x 8" Duplex.  
 How driven one 8" x 5" x 8" Duplex. Main Bilge Line { How driven Stem.

Ballast Pumps, No. and size One 8" x 9" x 8" Duplex. Lubricating Oil Pumps, including Spare Pump, No. and size none

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 3 @ 2 3/4" dia.  
 In Holds, &c. 2 @ 3 1/2" (one Port & one Starboard)

Main Water Circulating Pump Direct Bilge Suctions, No. and size One 6" Independent Power Pump Direct Suctions to the Engine Room Bilges,  
 No. and size One 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 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 Hold suction How are they protected below ceiling.  
 What pipes pass through the deep tanks yes 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 yes Is it fitted with a watertight door yes worked from yes

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 2984 sq. ft.  
 Is Forced Draft fitted no No. and Description of Boilers 2 S.E. Main Working Pressure 200  
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? yes  
 IS A DONKEY BOILER FITTED? no If so, is a report now forwarded? yes

PLANS. Are approved plans forwarded herewith for Shafting no Main Boilers yes Auxiliary Boilers yes Donkey Boilers yes  
 (If not state date of approval)

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

SPARE GEAR. State the articles supplied:— as per Rule requirements. Also 2 safety valve springs.  
1 set air pump valves, 6 plain boiler tubes, 3 stay tubes, 56 condenser tubes, 24 ferrules,  
propeller, 1 cylinder escape valve spring for each size fitted, 6 junk ring studs,  
6 cylinder cone studs, 1 main & 1 away check valve, 1 propeller shaft, 1 top end brass,  
1 bottom end brass, 1 feed pump ram, spares for away pumps, 1 piston rod, 1 L.P. valve  
spindle, 1 air pump rod, 1 pump crosshead guide slipper, 3 air pump head valve guards  
& studs, 1 set piston rings & springs for each piston, 1 set piston valve rings & springs.  
1 propeller & shaft for circulating pump.

The foregoing is a correct description,  
 for JOHN LEWIS & SONS, Ltd.

Manufacturer.



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