

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

7 OCT 1931

Date of writing Report 5th Oct 1931 When handed in at Local Office 6th Oct 1931 Port of Leith
 No. in Survey held at Leith Date, First Survey 20th July Last Survey 30th Sept 1931
 Reg. Book. 41108 on the s/s "LAFONIA" (Number of Visits 17)
 Built at Leith By whom built Henry Robb Ltd. Yard No. 189 When built 1931
 Engines made at Boothbridge By whom made W. Beardmore & Co. Ltd. Engine No. 556 when made 1931
 Boilers made at Sunderland By whom made Mac Bell & Pollock Ltd. Boiler No. 374 when made 1931
 Registered Horse Power ✓ Owners Falkland Islands Co. Ltd. Port belonging to Leith
 Nom. Horse Power as per Rule 118 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted yes
 Trade for which Vessel is intended Falkland Islands - Monte Video

ENGINES, &c.—Description of Engines Triple Expansion, Surface Condensing Revs. per minute 105
 Dia. of Cylinders 14" - 24" - 40" Length of Stroke 27" No. of Cylinders 3 No. of Cranks 3
 Crank shaft, dia. of journals as per Rule 7.43" Crank pin dia. 7 3/4" Crank webs Mid. length breadth 12" Thickness parallel to axis 4 3/4"
as fitted 7 3/4" Mid. length thickness 4 3/4" shrunk Thickness around eye-hole 3 9/16"
 Intermediate Shafts, diameter as per Rule 7.08" Thrust shaft, diameter at collars as per Rule 7.43"
as fitted 8 1/8" as fitted 7 3/4"
 Tube Shafts, diameter as per Rule 8.01" Is the tube shaft fitted with a continuous liner yes
as fitted 8 5/8" as fitted 8 5/8"
 Screw Shaft, diameter as per Rule 8.01" Is the screw shaft fitted with a continuous liner yes
as fitted 8 5/8" as fitted 8 5/8"
 Bronze Liners, thickness in way of bushes as per Rule 5.4" Thickness between bushes as per Rule 4" Is the after end of the liner made watertight in the
as fitted 9 1/16" as fitted 1/2" 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 Continuous
 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 No If so, state type ✓ Length of Bearing in Stern Bush next to and supporting propeller 2'-10 1/2"
 Propeller, dia. 11'-3" Pitch 10'-1" No. of Blades 4 Material Best Iron whether Moveable No Total Developed Surface 42.5 sq. feet
 Feed Pumps worked from the Main Engines, No. 2 Diameter 3" Stroke 13 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 13 1/2" Can one be overhauled while the other is at work yes
 Feed Pumps { No. and size 1 - 6" x 4" x 6" Pumps connected to the { No. and size 1 - 6" x 7" x 7"
 { How driven Steam-driven Main Bilge Line { How driven Steam-driven
 Ballast Pumps, No. and size 1 - 6" x 7" x 7" 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 Eng. Room 2-2" Boiler Room 2-2" Tunnel Well 1-2"
 In Holds, &c. No 1 Hold 2-2" No 2 Hold 2-2" After Hold 2-2 1/2"

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1-3 1/2" Independent Power Pump Direct Suctions to the Engine Room Bilges,
 No. and size 1-2 3/4" 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 Suctions to fore holds How are they protected Based in
 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 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 top platform
258.

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 2209 sq. ft.
 Is Forced Draft fitted No No. and Description of Boilers 2 Single Ended Multi Working Pressure 180 lbs.
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? yes (See Rpt. N° 30694).
 IS A DONKEY BOILER FITTED? No If so, is a report now forwarded? ✓

PLANS. Are approved plans forwarded herewith for Shafting reports Main Boilers yes Auxiliary Boilers ✓ Donkey Boilers ✓
 (If not state date of approval)

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

SPARE GEAR. State the articles supplied:— Propeller, propeller shaft, piston rod, two main
beasing bolts & nuts, two top end bolts & nuts, two bottom end bolts & nuts;
1 set top end brasses, 1 set bottom end brasses, 1 set coupling bolts,
1 set feed pump valves, 1 set bilge pump valves, 1 main feed check
valve, 1 aux. feed check valve, 3 jink ring bolts, assorted bolts &
nuts & iron, 2 safety valve springs, 6 plain boiler tubes, 2 stay tubes,
12 condenser tubes & ferrules, 1 set piston & bucket rings for ballast
pump, 1 set piston & bucket rings for feed pump.

The foregoing is a correct description,

Manufacturer.



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During progress of work in shops - -
Dates of Survey while building
During erection on board vessel - -
Total No. of visits 17.

Dates of Examination of principal parts—Cylinders Slides Covers
Pistons Piston Rods Connecting rods
Crank shaft Thrust shaft 1-7-31 (Sunderland) Intermediate shafts 1-7-31 (Sunderland)
Tube shaft Screw shaft 16-7-31 (Sunderland) Propeller 16-7-31 (Sunderland)
Stern tube 9-7-31 (Sunderland) Engine and boiler seatings 20-7-31 Engines holding down bolts 5-9-31
Completion of fitting sea connections 13-8-31
Completion of pumping arrangements 23-9-31 Boilers fixed 27-8-31 Engines tried under steam 25-9-31
Main boiler safety valves adjusted 24-9-31 Thickness of adjusting washers Star. B. S. V. 1/32 P. V. 3/8 Port. B. S. V. 3/8 P. V. 13/32
Crank shaft material Identification Mark Thrust shaft material Steel Identification Mark
Intermediate shafts, material Steel Identification Marks Tube shaft, material Identification Mark
Screw shaft, material Steel Identification Mark Steam Pipes, material Copper Test pressure 360 lbs Date of Test 11-9-31
Is an installation fitted for burning oil fuel No. Is the flash point of the oil to be used over 150°F.
Have the requirements of the Rules for the use of oil as fuel been complied with
Is the vessel (not being an oil tanker) fitted for carrying oil as cargo If so, have the requirements of the Rules been complied with
Is this machinery duplicate of a previous case If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.)

This Machinery - Gls Rpt. N° 46370, & Sld. Rpt. N° 30694 - has been efficiently fitted on board, & the materials & workmanship are sound & good. The Main Engines were opened up & examined & were found in good order & condition. On completion of installing, the safety valves were adjusted under steam to 185 lbs per sq in. & the Main Engines & Auxiliaries were tried at sea under full load & working conditions, & were found satisfactory. In my opinion the Machinery of this vessel is eligible to be classed in the Register Book with the notation of + L. M. C. 9-31.

Certificate to be sent to Leith

The amount of Entry Fee ... £ 3 : 0 : 0 When applied for, 6/10/1931
Special Installment ... £ 6 : 6 : 0 When received, 19/10/1931
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :

John Houston
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 16 OCT 1931

Assigned

+ L. M. C. 9.31

CERTIFICATE WRITTEN

C.L.



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