

Received at London Office 12 NOV 1926

Date of writing Report 11 Nov 1926 When handed in at Local Office 11 Nov 1926 Port of Leith
 No. in Survey held at Leith Date, First Survey 12 Jan 1926 Last Survey 11 Nov 1926
 Reg. Book. on the Steam Tug "Kaurice" (Number of Visits 36)
 Master Built at Leith By whom built Corn & Somerville Ltd (No 135) When built 1926
 Engines made at Leith By whom made Corn & Somerville Ltd (No 247) when made 1926
 Boilers made at Glasgow By whom made The South P. S. Co (1921) Ltd when made 1926
 Registered Horse Power Owners Corn Agents for the Colonies Port belonging to ✓
 Nom. Horse Power as per Section 28 107 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

ENGINES, &c.—Description of Engines Compound No. of Cylinders 2 No. of Cranks 2
 Dia. of Cylinders 21", 44" Length of Stroke 27" Revs. per minute 110 Dia. of Screw shaft as per rule 9.6 Material of screw shaft Steel
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube no Is the after end of the liner made water tight in the propeller boss yes If the liner is in more than one length are the joints burned ✓ 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 ✓ Length of stern bush 41"
 Dia. of Tunnel shaft as per rule 8.4 Dia. of Crank shaft journals as per rule 8.82 Dia. of Crank pin 9.2" Size of Crank webs 6.2" x 17.4" Dia. of thrust shaft under collars 9.3" Dia. of screw 10-0" Pitch of Screw 12-0" No. of Blades 4 State whether moceable no Total surface 39 sq ft
 No. of Feed pumps 2 Diameter of ditto 2.5" Stroke 15" Can one be overhauled while the other is at work yes
 No. of Bilge pumps 2 Diameter of ditto 2.5" Stroke 15" Can one be overhauled while the other is at work yes
 No. of Donkey Engines 2 Sizes of Pumps 5" x 7" x 12" : 6" x 4" x 6" No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 1-2.4" : 1-2.4" spec. : 1-2" in stock In Holds, &c. Jord 1-2" : Aft 1-2.4"
 No. of Bilge Injections 1 sizes 5" Connected to condenser, or to circulating pump yes Is a separate Donkey Suction fitted in Engine room & size yes - 2.4"
 Are all the bilge suction pipes fitted with roses yes Are the roses in Engine room always accessible yes Are the sluices on Engine room bulkheads always accessible ✓
 Are all connections with the sea direct on the skin of the ship yes Are they 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 Discharge Pipes 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 steam pipes How are they protected steel trunk
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes
 Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges yes
 Is the Screw Shaft Tunnel watertight none Is it fitted with a watertight door ✓ worked from ✓

BOILERS, &c.—(Letter for record) Manufacturers of Steel
 Total Heating Surface of Boilers 1910 sq ft Is Forced Draft fitted no No. and Description of Boilers One single Ended 15B.
 Working Pressure 130 lbs Tested by hydraulic pressure to 245 lbs Date of test 19.4.26 No. of Certificate 17103
 Can each boiler be worked separately ✓ Area of fire grate in each boiler 57.75 sq ft No. and Description of Safety Valves to each boiler double spring loaded Area of each valve 8.29 sq in Pressure to which they are adjusted 135 lbs Are they fitted with easing gear yes
 Smallest distance between boilers or uptakes and bunkers or woodwork abt 16" Mean dia. of boilers Length Material of shell plates
 Thickness Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams
 long. seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps
 Per centages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell
 Size of compensating ring No. and Description of Furnaces in each boiler Material Outside diameter
 Length of plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings
 bottom Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom
 Pitch of stays to ditto: Sides Back Top If stays are fitted with nuts or riceted heads Working pressure by rules
 Material of stays Area at smallest part Area supported by each stay Working pressure by rules End plates in steam space:
 Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays
 Area at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom
 Thickness Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules
 Diameter of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays
 Pitch across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and
 thickness of girder at centre Length as per rule Distance apart Number and pitch of stays in each
 Working pressure by rules Steam dome: description of joint to shell % of strength of joint
 Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
 Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to
 Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
 Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted



IS A DONKEY BOILER FITTED?

no

If so, is a report now forwarded?

✓

SPARE GEAR. State the articles supplied:— 2 connecting rod top end bolts & nuts :
2 connecting rod bottom end bolts & nuts : 2 main bearing bolts :
1 set of coupling bolts : 1 set of feed & bilge pump valves :
a quantity of assorted bolts & nuts : 400 of various sizes :
Spare tail shaft :

The foregoing is a correct description,

JOHN CRAN & SOMERVILLE, LTD

John Cran, Secretary

Manufacturer.

1926

Dates of Survey while building: During progress of work in shops -- Jan 12. 16. 20. 21 Feb 16. 25. Mar 2. 10. 15. 17. 25. Apr 7. 14. 29. May 6. 7. 13. 19. 25. 26
During erection on board vessel --- May 31 June 1. 2. 3. 8. 9. 11. 16. 17. 19. 22 28. 29. 30. July 5. Nov 11
Total No. of visits 36

Is the approved plan of main boiler forwarded herewith yes

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Dates of Examination of principal parts—Cylinders 25.2.26 Slides 25.3.26 Covers 10.3.26 Pistons 25.3.26 Rods 19.5.26
Connecting rods 14.4.26 Crank shaft 10.2.26 Thrust shaft 10.2.26 Tunnel shafts 7.4.26 Screw shaft 7.4.26 Propeller 14.4.26
Stern tube 14.4.26 Steam pipes tested 2.6.26 Engine and boiler seatings 26.5.26 Engines holding down bolts 15.6.26
Completion of pumping arrangements 30.6.26 Boilers fixed 28.6.26 Engines tried under steam 30.6.26
Completion of fitting sea connections 7.5.26 Stern tube 7.5.26 Screw shaft and propeller 7.5.26
Main boiler safety valves adjusted 29.6.26 Thickness of adjusting washers S.V. 15/32 P.V. 15/32
Material of Crank shaft Steel Identification Mark on Do. 1323 Material of Thrust shaft Steel Identification Mark on Do. 1323
Material of Tunnel shafts Steel Identification Marks on Do. 1377 Material of Screw shafts Steel Identification Marks on Do. 1376
Material of Steam Pipes solid drawn copper Test pressure 260 lb

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 Section 49 of the Rules been complied with ✓
Is this machinery duplicate of a previous case no If so, state name of vessel ✓

General Remarks (State quality of workmanship, opinions as to class, &c.)
The machinery of this vessel has been built under special survey: the material and workmanship being good, and proved satisfactory on steam trial.
It is submitted that this vessel be eligible to a record of + L.M.C. 11.26 in the Register Book.

It is submitted that this vessel is eligible for THE RECORD + LMC 11.26.06.

A. T. Thomas
Engineer Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee ... £ 3 : - :
Special $\frac{3}{5}$... £ 16 : 1 :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :
When applied for, 11-11-1926.
When received, 22-12-1926.

Committee's Minute TUES. 16 NOV 1926
Assigned + L.M.C. 11.26.06

