

REPORT ON MACHINERY.

No. 16997

Received at London Office 14 SEP 1926

Date of writing Report 13th Sept, 1926. When handed in at Local Office 13th Sept, 1926. Port of Leith
No. in Survey held at Leith Date, First Survey 8th Feb Last Survey 8th Sept, 1926.
Reg. Book. on the Steam Tug "Wellington" (Number of Visits 32)
Master Leith Built at Leith By whom built J. Can. Sonerville Co (No 136) Tons { Gross 285.42
Engines made at Leith By whom made John Can. Sonerville Co (No 249) when made 1926
Boilers made at Glasgow By whom made The John S. B. & P. Co (1921) Co. when made 1926
Registered Horse Power 140 Owners Alexander Towing Co Ltd Port belonging to Liverpool
Nom. Horse Power as per Section 28 140 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3
Dia. of Cylinders 17 1/2, 28, 47 1/2 Length of Stroke 28 Revs. per minute 104 Dia. of Screw shaft as per rule 9.76 Material of 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 oil gland 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 8.56 Dia. of Crank shaft journals as per rule 8.98 Dia. of Crank pin 9 Size of Crank webs 6 1/2 x 17 Dia. of thrust shaft under
collars 9 Dia. of screw 10-0 Pitch of Screw 12-6 No. of Blades 4 State whether moveable no Total surface 45 1/4
Feed pumps 2 Diameter of ditto 3 1/2 Stroke 13 1/2 Can one be overhauled while the other is at work yes
of Bilge pumps 2 Diameter of ditto 3 1/2 Stroke 13 1/2 Can one be overhauled while the other is at work yes
No. of Donkey Engines 1 Sizes of Pumps 7 x 4 1/2 x 8 No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room 2-2" & 1 spec 2 1/2" In Holds, &c. 1-2" & 1-2"

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 1/2
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 none How are they protected ✓
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 ✓

OILERS, &c.—(Letter for record S.) Manufacturers of Steel The Steel Co of Scotland Ltd
Total Heating Surface of Boilers 2200 sq ft Is Forced Draft fitted no No. and Description of Boilers one Single Ended
Working Pressure 200 lbs Tested by hydraulic pressure to 350 lbs Date of test 22.6.26 No. of Certificate 17153
Can each boiler be worked separately ✓ Area of fire grate in each boiler 64.5 sq ft No. and Description of Safety Valves to
each boiler double spring loaded Area of each valve 7.06 sq in Pressure to which they are adjusted 190 lbs Are they fitted with easing gear yes
Smallest distance between boilers or uptakes and bunkers or woodwork about 9" 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 ✓
ng. seams ✓ Diameter of rivet holes in long. seams ✓ Pitch of rivets ✓ Lap of plates or width of butt straps ✓
er centages of strength of longitudinal joint ✓ Working pressure of shell by rules ✓ Size of manhole in shell ✓
ise of compensating ring ✓ No. and Description of Furnaces in each boiler ✓ Material ✓ Outside diameter ✓
length of plain part ✓ Thickness of plates ✓ Description of longitudinal joint ✓ No. of strengthening rings ✓
Working pressure of furnace by the rules ✓ Combustion chamber plates: Material ✓ Thickness: Sides ✓ Back ✓ Top ✓ Bottom ✓
itch of stays to ditto: Sides ✓ Back ✓ Top ✓ If stays are fitted with nuts or riveted heads ✓ Working pressure by rules ✓
aterial of stays ✓ Area at smallest part ✓ Area supported by each stay ✓ Working pressure by rules ✓ End plates in steam space: ✓
aterial ✓ Thickness ✓ Pitch of stays ✓ How are stays secured ✓ Working pressure by rules ✓ Material of stays ✓
ea at smallest part ✓ Area supported by each stay ✓ Working pressure by rules ✓ Material of Front plates at bottom ✓
ickness ✓ Material of Lower back plate ✓ Thickness ✓ Greatest pitch of stays ✓ Working pressure of plate by rules ✓
iameter of tubes ✓ Pitch of tubes ✓ Material of tube plates ✓ Thickness: Front ✓ Back ✓ Mean pitch of stays ✓
itch across wide water spaces ✓ Working pressures by rules ✓ Girders to Chamber tops: Material ✓ Depth and ✓
ckness of girder at centre ✓ Length as per rule ✓ Distance apart ✓ Number and pitch of stays in each ✓
orking pressure by rules ✓ Steam dome: description of joint to shell ✓ % of strength of joint ✓
iameter ✓ Thickness of shell plates ✓ Material ✓ Description of longitudinal joint ✓ Diam. of rivet holes ✓
ch of rivets ✓ Working pressure of shell by rules ✓ Crown plates ✓ Thickness ✓ How stayed ✓
PERHEATER. Type ✓ Date of Approval of Plan ✓ Tested by Hydraulic Pressure to ✓
te of Test ✓ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler ✓
iameter of Safety Valve ✓ Pressure to which each is adjusted ✓ Is Easing Gear fitted ✓

IS A DONKEY BOILER FITTED? ☒

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: iron of various sizes.

The foregoing is a correct description,

JOHN CRAN & SOMERVILLE LTD.

J. Duncan Cran.

Manufacturer.

MANAGING DIRECTOR.
1926
Dates of Survey while building { During progress of work in shops - - Jan 12, 21, Feb 16, 25, Mar 17, Apr 7, 14, May 6, 13, 25, June 1, 2, 5, 11, 17, 21, 22, 24
During erection on board vessel - - June 28, July 5, 6, 13, 14, 15, 22, Aug 10, 19, 24, Sept 1, 2, 4, 8.
Total No. of visits 32.

Is the approved plan of main boiler forwarded herewith ☒ yes

" " " donkey " " " ☒

Dates of Examination of principal parts—Cylinders 7.4.26 Slides 5.7.26 Covers 5.7.26 Pistons 25.5.26 Rods 13.5.26

Connecting rods 13.5.26 Crank shaft 26.4.26 Thrust shaft 10.8.26 Tunnel shafts 10.8.26 Screw shaft 21.6.26 Propeller 21.6.26

Stern tube 3.6.26 Steam pipes tested 19.8.26 Engine and boiler seatings 24.6.26 Engines holding down bolts 24.8.26

Completion of pumping arrangements 2.9.26 Boilers fixed 22.7.26 Engines tried under steam 2.9.26

Completion of fitting sea connections 24.6.26 Stern tube 24.6.26 Screw shaft and propeller 24.6.26

Main boiler safety valves adjusted 1.9.26 Thickness of adjusting washers S.V. $\frac{3}{8}$ " P.V. $\frac{3}{8}$ "

Material of Crank shaft Steel Identification Mark on Do. 1360 Material of Thrust shaft Steel Identification Mark on Do. 122

Material of Tunnel shafts Steel Identification Marks on Do. 122 Material of Screw shafts Steel Identification Marks on Do. 1398

Material of Steam Pipes Copper Test pressure 400 lbs per sq in

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 has been built under Special Survey; the material and workmanship being good and proved satisfactory on steam trial.

It is submitted that this vessel is eligible for a record of + L.M.C. 9.26 in the Register Book.

It is submitted that this vessel is eligible for THE RECORD. + LMC 9.26. OG.

The amount of Entry Fee ... £ 3 : - : When applied for, 13-9-1926
Special See attached £ 35 : - :
Donkey Boiler Fee ... £ 20 : 6 :
Travelling Expenses (if any) £ : : When received, 13.6.27

FRI. 17 SEP 1926

Committee's Minute

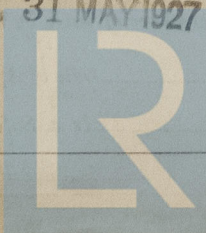
Assigned

+ L.M.C. 9:26

A. T. Thomas

Engineer Surveyor to Lloyd's Register of Shipping.

TUES. 31 MAY 1927



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