

Received at London Office
Date of writing Report 19 When handed in at Local Office 19 Port of Belfast MON. APR. 7 1924
No. in Survey held at Belfast Date, First Survey 1923 May 14 Last Survey Apr 4 1924
Reg. Book. SS City of Venice (Number of Visits 107) Gross 8308.34
on the Belfast Net 5222.60
Master Belfast Built at Belfast By whom built Workman Clark & Co Ltd When built 1924
Engines made at Belfast By whom made Workman Clark & Co Ltd when made 1924
Boilers made at Belfast By whom made Workman Clark & Co Ltd when made 1924
Registered Horse Power 819 Owners Ellerman Lines Ltd Port belonging to Glasgow
Nom. Horse Power as per Section 28 819 Is Refrigerating Machinery fitted for cargo purposes hp Is Electric Light fitted yes

ENGINES, &c.—Description of Engines Quadruple Expansion No. of Cylinders 4 No. of Cranks 4
Dia. of Cylinders 24 1/2 x 30 1/2 x 51 x 82 Length of Stroke 54 Revs. per minute 80 Dia. of Screw shaft 16 3/4 as per rule 16 3/4 Material of Steel
Is the screw shaft fitted with a continuous liner the whole length of the stern tube yes 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 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 Length of stern bush 6'-0"
Dia. of Tunnel shaft 15-16 as per rule 15-16 Dia. of Crank shaft journals 15-9 as per rule 15-9 Dia. of Crank pin 16 1/4 Size of Crank webs 11 Dia. of thrust shaft under
collars 16 1/4 Dia. of screw 19-0 Pitch of Screw 1 1/4 No. of Blades 4 State whether moveable yes Total surface 125 1/4
No. of Feed pumps 2 Diameter of ditto 10 Stroke 2 1/4 Can one be overhauled while the other is at work yes
No. of Bilge pumps 2 Diameter of ditto 5 Stroke 2 1/4 Can one be overhauled while the other is at work yes
No. of Donkey Engines 2 Sizes of Pumps See separate sheet No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room 4 @ 3" D.R. 2 @ 3" Special 5" 10 1/2" in each fore & aft In Holds, &c. 10 1/2" 2 @ 3" 10 1/2" 2 @ 3" 10 1/2" 2 @ 3"
10 1/2" 2 @ 3" 10 1/2" 2 @ 3" Deep Tank 2 @ 3" Tunnel Well 1 @ 3"
No. of Bilge Injections 1 sizes 12" Connected to condenser, or to circulating pump yes Is a separate Donkey Suction fitted in Engine room & size yes 5"
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 yes
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 Both
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 Bilge Suctions How are they protected Steel & wood cased
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 yes Is it fitted with a watertight door yes worked from Top Platform
BOILERS, &c.—(Letter for record 5) Manufacturers of Steel Wm Beardmore & Co Ltd

Total Heating Surface of Boilers 12044 Is Forced Draft fitted yes No. and Description of Boilers 4 Single Ended
Working Pressure 230 lbs Tested by hydraulic pressure to 395 lbs Date of test 18-1-24 No. of Certificate 833
Can each boiler be worked separately yes Area of fire grate in each boiler 41 1/4 No. and Description of Safety Valves to
each boiler Two high lift spring loaded Area of each valve 1-0 1/4 Pressure to which they are adjusted 235 lbs Are they fitted with easing gear yes
Smallest distance between boilers or uptakes and bunkers or woodwork 2'-0" Mean dia. of boilers 16-1 1/2 Length 12'-6" Material of shell plates Steel
Thickness 1 3/4 Range of tensile strength 30 to 34 tons Are the shell plates welded or flanged no Descrip. of riveting: cir. seams D.R.
long. seams T.R.D.B.S. Diameter of rivet holes in long. seams 1 5/8 Pitch of rivets 10 1/4 Lap of plates or width of butt straps 1-11 5/8
Per centages of strength of longitudinal joint 84.8 Working pressure of shell by rules 232 lbs Size of manhole in shell 16 x 12
Size of compensating ring 38 x 31 1/2 x 1 1/2 No. and Description of Furnaces in each boiler 4 Corrugated Material Steel Outside diameter 3'-8 1/2
Length of plain part top 21" bottom 22" Thickness of plates 21" 22" Description of longitudinal joint weld No. of strengthening rings 29"
Working pressure of furnace by the rules 232 lbs Combustion chamber plates: Material Steel Thickness: Sides 1 1/2 Back 1 1/2 Top 1 1/2 Bottom 2 1/2
Pitch of stays to ditto: Sides 1 1/2 x 8 1/2 Back 1 1/2 x 7 1/2 Top 1 1/2 x 8 1/2 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 231 lbs
Material of stays Steel Area at smallest part 1 1/2 x 2 1/2 Area supported by each stay 65.5 Working pressure by rules 232 lbs End plates in steam space:
Material Steel Thickness 1 3/4 Pitch of stays 20 1/2 x 16 How are stays secured D.R. Wash Working pressure by rules 233 lbs Material of stays Steel
Area at smallest part 1 1/2 x 2 1/2 Area supported by each stay 344 Working pressure by rules 234 lbs Material of Front plates at bottom Steel
Thickness 1 Material of Lower back plate Steel Thickness 1 1/2 Greatest pitch of stays 15 x 8 1/2 Working pressure of plate by rules 254 lbs
Diameter of tubes 2 1/2 Pitch of tubes 3 1/2 x 3 1/2 Material of tube plates Steel Thickness: Front 1 Back 2 1/2 Mean pitch of stays 11 1/2 x 1 1/2
Pitch across wide water spaces 13 1/2 Working pressures by rules 25 1/2 lbs Girders to Chamber tops: Material Steel Depth and
thickness of girder at centre 20 3/4 x 12 1/2 Length as per rule 25 1/2 Distance apart 8 3/4 Number and pitch of stays in each 4 @ 1 1/2
Working pressure by rules 236 lbs Steam dome: description of joint to shell none % of strength of joint
Diameter 10 Thickness of shell plates 10 Material Steel Description of longitudinal joint none Diam. of rivet holes 10
Pitch of rivets 10 Working pressure of shell by rules 10 Crown plates 10 Thickness 10 How stayed 10
SUPERHEATER. Type none Date of Approval of Plan 10 Tested by Hydraulic Pressure to 10
Date of Test 10 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler 10
Meter of Safety Valve 10 Pressure to which each is adjusted 10 Is Easing Gear fitted 10

ho. ✓

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— Two each bolts & nuts for top & bottom ends & main bearings.
one set coupling bolts, one pair crank pin bushes Two Cast Iron propeller blades with one set studs & nuts
one set feed, bulge & air pp. valves. Complete. Air pp. rod, valve spindle, one pair ahead ice straps.
1 set Packing rings for each piston, 50 Condenser tubes, 100 frames 1 set Escape valve springs.
Quantity of assorted bolts nuts & iron.

The foregoing is a correct description,
FOR WORKMAN, CLARK & CO., LIMITED.

F. Cunningham

Manufacturer.

Dates of Survey while building	{ During progress of work in shops - - { During erection on board vessel - - { Total No. of visits	1923 Jan 14 16, 18, 25, 29, June 4, 5, 6, 10, 21, 27, 28, 29, July 3, 4, 13, 14, 23, Aug 1, 2, 6, 8, 9, 17, 21, 22, 23, 24, 31, Sep 7, 21, 24, 25, 28, Oct 2, 10, 12, 15, 17, 23, 24, 29, 30, 31, Nov 1, 2, 5, 6, 7, 9, 14, 15, 19, 20, 21, 22, 28, Dec 3, 6, 8, 7, 10, 12, 13, 14, 20, 21, 1924 Jan 2, 4, 10, 14, 15, 16, 17, 18, 23, 25, 26, 29, 31, Feb 1, 5, 13, 19, 20, 21, 25, 27, Mar 3, 4, 5, 6, 8, 11, 12, 13, 19, 20, 21, 24, 26, 27, 28, 29, 31, Apr 1, 4,	Is the approved plan of main boiler forwarded herewith <i>yes</i> ✓
		107	

Is the approved plan of main boiler forwarded herewith.

Plows. oil fuel settling tanks & mntns, Bkr mntns oil fuel. pipes. (5 in all)

Years. Oct. full sailing *Nov.* 1897

Dates of Examination of principal parts—Cylinders 20-11-93 Slides 24-11-93 Covers 24-11-93 Pistons 27-11-93 Rods 11-12-93

Connecting rods 11-11-93 Crank shaft 19-11-93 Thrust shaft 21-12-93 Tunnel shafts 14-12-93 Screw shaft 14-12-93 Propeller 13-12-93

Stern tube 13-12-93 Steam pipes tested 20-2-94 Engine and boiler seatings 15-1-94 Engines holding down bolts 26-2-94.

Completion of pumping arrangements 28-2-94 Boilers fixed 11-3-94 Engines tried under steam 14-4-94.

Completion of fitting sea connections 15-1-94 Stern tube 15-1-94 Screw shaft and propeller 15-1-94.

Main boiler safety valves adjusted 21-3-94. 48-3-94 Thickness of adjusting washers 4/32 W.B.
P₁ 5/16 P₂ 5/16 Port. 5/16 Stand. 5/16

Material of Crank shaft Steel Identification Mark on D.O. 65#2, 65H Material of Thrust shaft Steel Identification Mark on D.O. 6566 W.B.
65H, 65A, 65-10, 65H, 65B, 65-10, 65-10 W.B.

Material of Tunnel shafts Steel Identification Marks on D.O. 6565 W.B. Material of Screw shafts Steel Identification Marks on D.O. 6541 W.B.

Material of Steam Pipes Lap welded wrought iron Test pressure 400 lbs.

Is an installation fitted for burning oil fuel yes Is the flash point of the oil to be used over 150°F. yes

Have the requirements of Section 49 of the Rules been complied with yes

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.)

General Remarks (State quality of workmanship, opinions as to class, etc.)
The Machinery of this vessel has been built under Special Survey, Materials & Workmanship good. Hydraulic tests satisfactory. The whole of the machinery has been satisfactorily installed & fixed in the vessel & tried under steam & is in good & safe working condition & eligible in my opinion to be classed & have records **LMC 4-24 F.D.** Fitted for oil fuel H-24 FP above 150° F. Tail Shaft C.L. Elect Pt. in the Register Book.

It is submitted that
this vessel is eligible for
THE RECORD. + LMC 4.24. CL.

Fitted for oil fuel 4.24. FP above 150°F.

The amount of Entry Fee ... £	6 : 0 0	When applied for,	26-3-19 ²⁴
Special £	115 : 19 0		
Electric Light £	26 : 0 0	When received,	2-4-19 ²⁴
Boiler Fee £			
Travelling Expenses (if any) £			

Committee's Minute

Assigned

TUE 8 APR. 1924

+ Lm. 4.24. C.L.

Heated for oil fuel 4.24
F. P. above 150°F.

C. L.
CERTIFICATE WRITTEN

Continuation of Report No. 9091 dated

on the

S.S. City of Venice

Independent Pumps.

Ballast Pump. duplex 10" x 10" x 10"

Main Feed pumps. Weirs $10 \times 13\frac{1}{2} \times 24$

Ant " " " 5" x 4" x 18

Centrifugal Circulating Sp. 145" Impeller

antany pp. duplet 6 x 4 x 8

naval Service pp 10" x 6" x 10"

fresh water pp. 5" x 5" x 6"

al Guel Transfer R.P. Weiss 11" x 6 1/2" x 1

all Fuel. Pumps for bilers. with heaters & filters in duplicate

Emergency Relief Pump. Motor driven 9 dia x 8 str ✓

William Butler.

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Lloyd's Register
Foundation
W236-0449 2 1/2

W236-0149 3/2