

Received at London Office

1 OCT 1925

Date of writing Report

19

When handed in at Local Office

29.9.1925 Port of Glasgow

No. in Survey held at  
Reg. Book.

Glasgow

Date, First Survey 24.6.24 Last Survey 25.9.1925

(Number of Vessels)

on the new steel T.S.S. "LLANDUYERY CASTLE".

Master

Built at

Glasgow

By whom built

Barclay Curle &amp; Co. Ltd. (N° 606)

When built

1925

Engines made at

Glasgow

By whom made

Barclay Curle &amp; Co. Ltd. (N° 606)

when made

1925

Boilers made at

Glasgow

By whom made

Barclay Curle &amp; Co. Ltd. (N° 606)

when made

1925

Registered Horse Power

Owners Union Castle Steamship Co. Ltd.

Port belonging to

London

Nom. Horse Power as per Section 28 1085

Is Refrigerating Machinery fitted for cargo purposes

yes

Is Electric Light fitted

yes

ENGINES, &amp;c.—Description of Engines Twin. Quadruple expansion No. of Cylinders 8 No. of Cranks 8

Dia. of Cylinders 23"-33 1/4"-48"-70" Length of Stroke 51" Revs. per minute 80 Dia. of Screw shaft 14.5" as per rule appd 15" Material of steel

Is the screw shaft fitted with a continuous liner the whole length of the stern tube yes No O.G. 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 5'-2"

Dia. of Tunnel shaft 13.14" as per rule appd 13.3" Dia. of Crank shaft journals 13.8" as per rule appd 14.1" Dia. of Crank pin 15.4" Size of Crank webs 10"x22 1/2" Dia. of thrust shaft under

collars 14.2" Dia. of screw 17.3" Pitch of Screw 19'-9" No. of Blades 3 State whether moveable yes Total surface 750 sq ft

No. of Feed pumps 3 Diameter of ditto 12" Stroke 24" Can one be overhauled while the other is at work yes (Worthington Simpson)

No. of Bilge pumps 2 Diameter of ditto 5 1/2" Stroke 25 1/2" Can one be overhauled while the other is at work yes

No. of Donkey Engines 3 Sizes of Pumps 2 @ 11 &amp; 7 1/2 x 9 No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room 4 @ 3 1/2", 1 @ 3 1/2" in N° 4 dry tank. Boiler room - 2 @ 3 1/2" In Holds, &amp;c. N° 1 hold - 2 @ 3 1/2" N° 2 hold - 2 @ 3 1/2" Bunkers hold -

2 @ 3" in N° 3 hold - 2 @ 3" N° 4 hold - 2 @ 3" Tunnel well - 1 @ 3"

No. of Bilge Injections 2 sizes 11" Connected to condenser, or to circulating pump C.P. Is a separate Donkey Suction fitted in Engine room &amp; size 2 @ 5 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 none

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 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 yes Is it fitted with a watertight door yes worked from Bridge deck

BOILERS, &amp;c.—(Letter for record 5) Manufacturers of Steel Wm Beardmore &amp; Co. Ltd. &amp; The Lanarkshire Steel Co. Ltd.

Total Heating Surface of Boilers 19,647 Is Forced Draft fitted no No. and Description of Boilers 2 SE. as below — HS = 5,139 sq ft

Working Pressure 220 Tested by hydraulic pressure to 380 Date of test 10-12-24 No. of Certificate 16677

Can each boiler be worked separately yes Area of fire grate in each boiler 64.68 sq ft TOTAL 129.36 sq ft No. and Description of Safety Valves to

each boiler 2 low pressure High lift Area of each valve 7.060" Pressure to which they are adjusted 225 Are they fitted with easing gear yes

Smallest distance between boilers or uptakes and bunkers or woodwork 2'-3" Mean dia. of boilers 15'-8" Length 11'-11" Material of shell plates steel

Thickness 1 1/2" Range of tensile strength 30-34 tons Are the shell plates welded or flanged no Descrip. of riveting: cir. seams DR.

long. seams TR. DBS Diameter of rivet holes in long. seams 1 9/16" Pitch of rivets 10 3/8" Lap of plates or width of butt straps 22 1/8"

Per centages of strength of longitudinal joint rivets 90.5 Working pressure of shell by rules 221 Size of manhole in shell 20 1/2" x 16 1/2"

manhole 16" x 12" plate 84.9 No. and Description of Furnaces in each boiler 3 Morrison Material steel Outside diameter 3'-10 1/2"

Size of compensating ring 10 3/4" x 1 1/2" No. and Description of longitudinal joint welded No. of strengthening rings

Length of plain part top bottom Thickness of plates crown bottom 3 1/2" Description of longitudinal joint welded No. of strengthening rings

Working pressure of furnace by the rules 220 Combustion chamber plates: Material steel Thickness: Sides 3 1/2" Back 1 1/2" Top 2 1/2" Bottom 3 1/2"

Pitch of stays to ditto: Sides 15"x8 1/2" Back 12"x7 1/2" Top 15"x8 1/2" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 222

Material of stays steel Area at smallest part 416.82 sq ft Area supported by each stay 166.58 sq ft Working pressure by rules 229 &amp; 253 End plates in steam space:

Material steel Thickness 1 1/2" Pitch of stays 17"x22 1/2" How are stays secured outside Working pressure by rule appd 220 Material of stays steel

Area at smallest part 7.60" Area supported by each stay 379.0" Working pressure by rules 225 Material of Front plates at bottom steel

Thickness 7/8" Material of Lower back plate steel Thickness 2 1/2" Greatest pitch of stays 14 1/4" x 7 1/2" Working pressure of plate by rules 221

Diameter of tubes 2 3/4" Pitch of tubes 4"x4" Material of tube plates steel Thickness: Front 1" Back 1 1/2" Mean pitch of stays 8"

Pitch across wide water spaces 14" Working pressures by rules 258 Girders to Chamber tops: Material steel Depth and

thickness of girder at centre 10 1/2" x 2 @ 8" Length as per rule 3-3 5/8" Distance apart 8 1/2" Number and pitch of stays in each 4 @ 7 1/2"

Working pressure by rules 123 Steam dome: description of joint to shell none % 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 none 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



*If so, is a report now forwarded?*

*The foregoing is a correct description,*  
FOR BARCLAY, CURLE & CO., LTD.

John Alexander

**Manager**

*Manufacturer.*

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

1924. June 24. July 15. 16. 30. Aug 1. 5. 6. 12. 22. 27. Sept 16. 23. 30. Oct 8. 10. 17. 22. 27.  
Nov 5. 10. 14. 21. 25. 29. Dec 3. 4. 9. 10. 18. 24.  
1925. Jan 14. 19. 23. 27. Feb 18. 20. 24. 27. Mar 6. 9. 11. 17. 24. 27. 30. Apr 2. 21. 27. 28. 30. May 11. 15. 20.  
June 3. 23. July 2. 23. Aug 21. 28. 31. Sept. 1. 17. 28. SE SB  
63 Is the approved plan of main boilers forwarded herewith yes

Is the approved plan of main boilers forwarded herewith

also " " " " " " " " with Bel Rpt  
N-91581

Dates of Examination of principal parts—Cylinders 18-12-24 Slides 19-1-25 Covers 4-12-24 Pistons 14-1-25 Rods 3-12-24

Connecting rods 3-12-24 Crank shaft <sup>Finished at</sup> Darlington Thrust shaft 14-1-25 Tunnel shafts 14-1-25 Screw shafts 14-1-25 Propeller 21-4-25

Stern tube <sup>18-4-25 to</sup> 18-4-25 Steam pipes tested 28-8-25 Engine and boiler seatings 28-4-25 Engines holding down bolts 21-8-25

Completion of pumping arrangements 1-9-25 Boilers fixed 31-8-25 Engines tried under steam 25-9-25

Completion of fitting sea connections 23-6-25 Stern tubes 3-6-25 Screw shafts and propellers 3-6-25

Main boiler safety valves adjusted 3-8-25 Thickness of adjusting washers  $P_{16}^{11} C_{32}^{15} S_{32}^{15}$  all  $\frac{7}{16}$ "

Material of Crank shaft Steel Identification Mark on Do. LLOYDS  
N<sup>o</sup> 4605

Material of Tunnel shafts Steel Identification Marks on Do. LLOYDS Material of Screw shafts Steel Identification Marks on Do. L.C.D.

Material of Steam Pipes solid drawn steel N-4605  
L.C.O.  
19-125 Test pressure 660 lbs per sq 14-25

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 materials and workmanship are good

The two single ended boilers and the engines have been constructed under Special Survey in accordance with the Rules.

The machinery has been satisfactorily fitted in the vessel, tried under steam and found good. It is eligible in my opinion for classification and the Record - LMC 9,25

It is submitted that

THE RECORD. LMC 9.25. CL

CERTIFICATE WRITTEN  
30-10-20

1<sup>st</sup> entry fee £ 6 = 0 = 0

~~The amount of Entry Fee~~ <sup>SPECIAL</sup> ~~...~~ £ 89 : 10 : 6

When applied for,

When applied for,  
30 SEP 1925

Donkey Boiler Fee ... £ : :

When received,

Travelling Expenses (if any) £ : :

## Committee's Minute

GLASGOW

Assigned *LMC 9.25*

*Engineer Surveyor to Lloyd's Register of Shipping.*



© 2021

Lloyd's Register  
Foundation