

REPORT ON MACHINERY.

No. 44620

6 MAY 1925

Received at London Office

Date of writing Report 25th April 1925 When handed in at Local Office 25/4/25 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 16-2-23 Last Survey 24.4.1925
 Reg. Book. on the Screw Steamer "FULLERTON ROSE" (Number of Visits 78)
 Master Built at Paisley By whom built J. Fullerton & Co. Tons { Gross 1594 Net 943 When built 1925
 Engines made at Glasgow By whom made Ross & Duncan when made 1925
 Boilers made at Paisley By whom made Bow, MacLachlan & Co. Ltd. when made 1925
 Registered Horse Power 226 Owners R. Hughes & Co. Port belonging to Limpud
 Nom. Horse Power as per Section 28 226 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

E/127 3/14445 5275

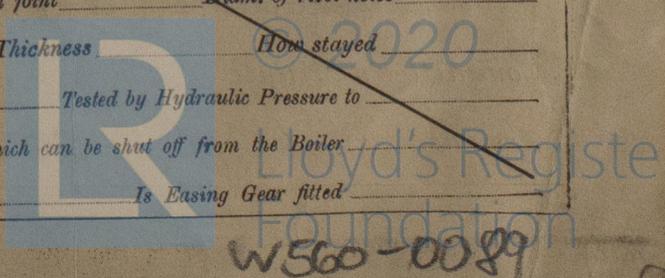
ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 19-31-50 Length of Stroke 36 Revs. per minute 91 Dia. of Screw shaft 10.7 Material of screw shaft S
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube Yes Is the 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 44
 Dia. of Tunnel shaft 9.6 Dia. of Crank shaft journals 10.0 Dia. of Crank pin 10.3/8 Size of Crank web 44x65 Dia. of thrust shaft under collars 10.4 Dia. of screw 13-0 Pitch of Screw 13-9 No. of Blades 4 State whether moveable No Total surface 59.5
 No. of Feed pumps 2 Diameter of ditto 3 1/4 Stroke 18 Can one be overhauled while the other is at work Yes
 No. of Bilge pumps 2 Diameter of ditto 3 1/4 Stroke 18 Can one be overhauled while the other is at work Yes
 No. of Donkey Engines 2 Sizes of Pumps 8x5x8, 9x10x10 No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 3-2 1/2 In Holds, &c. No 1 Hold 2-2 1/4
 No. of Bilge Injections 1 sizes 4 1/2 Connected to condenser, or to circulating pump C.P. Is a separate Donkey Suction fitted in Engine room & size Yes 3 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 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 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 Yes
 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 Yes worked from Yes

BOILERS, &c.—(Letter for record S) Manufacturers of Steel 208
 Total Heating Surface of Boilers 4366 Is Forced Draft fitted No No. and Description of Boilers Two Cyl. Single End
 Working Pressure 180 lb Tested by hydraulic pressure to 320 lb Date of test 24 & 27/2/25 No. of Certificate 16739, 16741
 Can each boiler be worked separately Yes Area of fire grate in each boiler 67.5 No. and Description of Safety Valves to each boiler Two Spring Lock Area of each valve 9.82 Pressure to which they are adjusted 185 lb Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork Will clear 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 _____ Working pressure of shell by rules _____ Size of manhole in shell _____
 Size of compensating ring _____ No. and Description of Furnaces in each boiler 3 cf. 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 _____
 Pitch of stays to ditto: Sides _____ Back _____ If stays are fitted with nuts or riveted 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 _____

If not, state whether, and when, one will be sent

In a Report also sent on the Hull of the ship



IS A DONKEY BOILER FITTED? *No*

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— *As per Rules, also. The following items*
1 propeller, 1 out air pump valves, 1 out valves for feed Dry pump, 6 boiler tubes, 2 Condenser
tubes, 2 feed check valves, 1 safety valve spring

The foregoing is a correct description,

Ross Duncan

Manufacturer.

Dates of Survey while building	During progress of work in shops --	1923. Feb 26. Mar 7. 14. 21. 26. Apr 5. 9. 16. 23. 26. 30. May 7. 14. 15. June 12. 25. July 2. 25. Aug 13. Sept 7. 14. Oct 9. 15. 17. Nov 27.
		1924. Jan 24. June 23. July 9. 14. 21. Aug 4. 11. 14. 18. 21. 26. 29. Sept 2. 10. 15. 22. 25. Oct 1. 6. 8. 11. 20. 24. 29.
		Nov 3. 7. 12. 20. 24. Dec 3. 9. 14. 24. 27. 1925. Jan 8. 15. 20. 23. 27. Feb 17. Mar 12. 24. 27.
	During erection on board vessel --	<i>Nov 1. 4. 7. 6. 14. 17. 21. 24.</i>
	Total No. of visits	<i>78</i>

Is the approved plan of main boiler forwarded herewith *44480*.

" " " donkey " " "

Dates of Examination of principal parts—Cylinders *15. 8. 24* Slides *14. 8. 24* Covers *1. 10. 24* Pistons *11. 8. 24* Rods *21. 8. 24*

Connecting rods *31. 7. 24* Crank shaft *23. 6. 24* Thrust shaft *29. 10. 24* Tunnel shafts ✓ Screw shaft *27. 1. 25* Propeller *23. 1. 25*

Stern tube *23. 1. 25*. Steam pipes tested *4. 4. 25*. Engine and boiler seatings *24. 3. 25*. Engines holding down bolts *7. 4. 25*

Completion of pumping arrangements *17. 4. 25*. Boilers fixed *7. 4. 25*. Engines tried under steam *24. 4. 25*.

Completion of fitting sea connections *17. 2. 25*. Stern tube *17. 2. 25*. Screw shaft and propeller *17. 2. 25*.

Main boiler safety valves adjusted *17. 4. 25*. Thickness of adjusting washers *P 11/32 5/16 P 5/16 5/16*

Material of Crank shaft *S*. Identification Mark on Do. *127 JSC*. Material of Thrust shaft *S*. Identification Mark on Do. *960 A.T.T.*

Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts *S*. Identification Marks on Do. *959 A.T.T.*

Material of Steam Pipes *Copper*. Test pressure *360 lb. 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 *Engines only*. If so, state name of vessel *S/S. LOUIE ROSE*

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

These engines have been constructed under special survey in accordance with the Society's Rules, the materials and workmanship employed in their manufacture are sound and good. Together with the boilers they have been fitted on board the vessel in a satisfactory manner and found satisfactory under steam.

The vessel is eligible in my opinion for record + L.M.C. 4. 25.

It is submitted that this vessel is eligible for THE RECORD. + L.M.C. 4. 25 C.L.

W. Lane & J. D. Boyle

The amount of Entry Fee ...	£ 4 : 0 0	When applied for, 5757 19 25
3/5 Special ...	£ 33 : 18 0	
Donkey Boiler Fee ...	£ : : :	When received, 18 25
Travelling Expenses (if any) £	: : :	

W. Lane & J. D. Boyle
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute *GLASGOW 5 - MAY 1925*

Assigned *+ L.M.C. 4. 25.*

CERTIFICATE WRITTEN 28/5/25



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2. 2. 25 report.

Certificate (if required) to be sent to

The Surveyors are requested not to write on or below the space for Committee's Minute.