

# REPORT ON MACHINERY.

No. 42059

Received at London Office

WED. 19 JUL. 1922

Date of writing Report 10 When handed in at Local Office 8/7/22 Port of Glasgow  
 No. in Survey held at 2409 Date, First Survey 2/5/20 Last Survey 11-7-1922  
 Reg. Book. on the S/S "Foch Rose" (Number of Visits 52) Gross 1135 Tons Net 617  
 Master Built at Paisley By whom built John Fullerton & Co. (1120) when made 1922  
 Engines made at Glasgow By whom made Ross & Duncan, Co. (1120) when made 1922  
 Boilers made at do By whom made do 1654/5 when made 1922  
 Registered Horse Power Owners Richard Hughes & Co. Port belonging to Liverpool  
 Nom. Horse Power as per Section 28 153 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

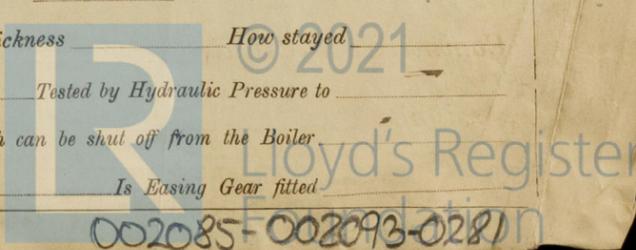
**ENGINES, &c.**—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3  
 Dia. of Cylinders 16 - 26 - 44 Length of Stroke 33 Revs. per minute 100 Dia. of Screw shaft as per rule 4.3 Material of screw shaft S  
 as fitted 3 3/4 Is the screw shaft fitted with a continuous liner the 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 — 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 39"  
 Dia. of Tunnel shaft as per rule 8.32 Dia. of Crank shaft journals as per rule 8.75 Dia. of Crank pin 9 1/8" Size of Crank webs 13 1/4 x 17" Dia. of thrust shaft under  
 collars 9" Dia. of screw 11.3" Pitch of Screw 12.6" No. of Blades 4 State whether moveable No Total surface 50 sq ft  
 No. of Feed pumps 2 Diameter of ditto 2 3/4" Stroke 16 1/2" Can one be overhauled while the other is at work Yes  
 No. of Bilge pumps 2 Diameter of ditto 3" Stroke 16 1/2" Can one be overhauled while the other is at work Yes  
 No. of Donkey Engines 2 Sizes of Pumps Ball 7 x 8 x 8 Rod 6 x 4 1/2 x 6" No. and size of Suctions connected to both Bilge and Donkey pumps  
 In Engine Room 1. 2 1/2. 2. 2" In Holds, &c. 2. 2"  
 No. of Bilge Injections 1. sizes 4" Connected to circulating pump Pump 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 Hold Tank Suctions How are they protected Wood casing  
 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 No Is it fitted with a watertight door worked from —

**BOILERS, &c.**—(Letter for record S) Manufacturers of Steel David Colville & Sons  
 Total Heating Surface of Boilers 2856 sq ft Is Forced Draft fitted No No. and Description of Boilers 2 Single Ended  
 Working Pressure 180 Tested by hydraulic pressure to 320 Date of test 16.3.22 No. of Certificate 16033  
 Can each boiler be worked separately Yes Area of fire grate in each boiler 39 sq ft No. and Description of Safety Valves to  
 each boiler Double Spring Area of each valve 4.9 sq ft Pressure to which they are adjusted 185 Are they fitted with easing gear Yes  
 Smallest distance between boilers or uptakes and bunkers or woodwork 3.9" Mean dia. of boilers 12.0" Length 10.6" Material of shell plates S  
 Thickness 1" Range of tensile strength 28/32 Are the shell plates welded or flanged No Descrip. of riveting: cir. seams DR  
 long. seams TRIDBS Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 7" Length of plates or width of butt straps 17 3/4"  
 Percentages of strength of longitudinal joint rivets 84.5% Working pressure of shell by rules 180 Size of manhole in shell 16 x 12  
 plate 83.9% Size of compensating ring 7 Ring + 1" No. and Description of Furnaces in each boiler 2 Corrugated Material S Outside diameter 46 1/4"  
 Length of plain part top Thickness of plates crown 3 9/16" Description of longitudinal joint Weld No. of strengthening rings —  
 bottom Working pressure of furnace by the rules 190 Combustion chamber plates: Material S Thickness: Sides 1 1/16" Back 5/8" Top 1/16" Bottom 1/16"  
 Pitch of stays to ditto: Sides 9 1/2 x 9" Back 8 1/2 x 8 1/2" Top 9 1/2 x 9" If stays are fitted with nuts or riveted heads Both Working pressure by rules 187  
 Material of stays S Area at smallest part 176.207" Area supported by each stay 77.25" Working pressure by rules 194 End plates in steam space:  
 Material S Thickness 1 1/32" Pitch of stays 17 x 16" How are stays secured DN Washers Working pressure by rules 185 Material of stays S  
 Area at smallest part 5.18" Area supported by each stay 272 Working pressure by rules 186 Material of Front plates at bottom S  
 Thickness 27/32" Material of Lower back plate S Thickness 27/32" Greatest pitch of stays 14 x 8 1/2" Working pressure of plate by rules 183  
 Diameter of tubes 3 1/4" Pitch of tubes 4 1/2 x 4 1/4" Material of tube plates S Thickness: Front 27/32" Back 3/4" Mean pitch of stays 10 1/4"  
 Pitch across wide water spaces 14" Working pressures by rules 243 Girders to Chamber tops: Material S Depth and  
 thickness of girder at centre 7 3/4 x 13 1/4" Length as per rule 20 1/8" Distance apart 9" Number and pitch of stays in each 24 x 9 1/2"  
 Working pressure by rules 188 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

2m, 7.19, T



IS A DONKEY BOILER FITTED? **No**

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:-

2 Connecting Rod bolts for top end, ditto for bottom end. 2 Main Bearing bolts. 1 Set of Coupling bolts. 1 Set of Feed & Bilge Pump Bolts. 1 Set of Piston Rings & a quantity of assorted bolts & nuts of various sizes

The foregoing is a correct description,

**Ross Duncan**

Manufacturer.

Dates of Survey while building	During progress of work in shops --	1920. May 2-14-19. 26-29. 31. Oct. 11-19. Nov 25.
		1921. July 2-22. Oct 12-20-28. May 10-18. Sept 12-27-29. Oct 10-19. Nov 6-21-24. Dec 16-21-27
		1922. Jan 11-17. 18-22-30. Feb 2-6-9. 15-23-28. Feb 8-14-16-17-24-28. Apr 4-13. June 20-25-30.
	During erection on board vessel ---	July 5-6-11
	Total No. of visits	52

Is the approved plan of main boiler forwarded herewith **Yes**

Dates of Examination of principal parts—Cylinders **30. 1. 22** Slides **26. 11. 20** Covers **30. 1. 22** Pistons **22. 2. 01** Rods **26. 11. 20**  
 Connecting rods **25. 11. 20** Crank shaft **11. 1. 22** Thrust shaft **8. 3. 22** Tunnel shafts — Screw shaft **8. 3. 22** Propeller **8. 3. 22**  
 Stern tube **8. 3. 22** Steam pipes tested **30-6-22** Engine and boiler seatings **28. 3. 22** Engines holding down bolts **28. 6. 22**  
 Completion of pumping arrangements **11. 7. 22** Boilers fixed **28. 6. 22** Engines tried under steam **11. 7. 22**  
 Completion of fitting sea connections **28. 3. 22** Stern tube **28. 3. 22** Screw shaft and propeller **28. 3. 22**  
 Main boiler safety valves adjusted **6. 7. 22** Thickness of adjusting washers **PR 11/32 S R 1/64 PR 21/64 S 9/32**  
 Material of Crank shaft **S** Identification Mark on Do. **120-11-127** Material of Thrust shaft **S** Identification Mark on Do. **594360 CM**  
 Material of Tunnel shafts **✓** Identification Marks on Do. **C.M** Material of Screw shafts **S** Identification Marks on Do. **1120 CM**  
 Material of Steam Pipes **Copper** Test pressure **360lb**

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. **These Engines & Boilers have been built under special survey in accordance with the approved plans & the workmanship & material are of good quality they have now been securely fitted on board & tried under steam & found satisfactory**  
**The Machinery is eligible in our opinion for the record of L.M.C. 7. 22**

It is submitted that this vessel is eligible for THE RECORD.

**L.M.C. - 7.22.**

**C.L.**

*L.F. 20/7/22*

The amount of Entry Fee ... £	<b>33-</b>	When applied for, <b>15. 7. 22</b>
Special ... £	<b>38. 5-</b>	
Donkey Boiler Fee ... £	:	When received, <b>19/7/22</b>
Travelling Expenses (if any) £	:	

**W. Lindor, Muelin for Self & B. Marfell**  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **FRI. JUL. 21 1922**  
Assigned **+ L.M.C. 7. 22**

MACHINERY DEPT. WRITTEN



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*Glasgow*

Certificate (if required) to be sent to the Surveyors are requested not to write on or below the space for Committee's Minute.

*Mc. 15-7-22*