

REPORT ON MACHINERY.

No. 27303

MON 12 AUG. 1918

Received at London Office

Date of writing Report 29. 7. 1918 Port of Sunderland
 No. in Survey held at Sunderland Date, First Survey 2 Oct. 17 Last Survey 27 July 1918
 Reg. Book. on the **SS WAR PARROT** (Number of Vessels 49) Gross 5240
 Master Skreeling Built at Sunderland By whom built Sir Jas. Laing & Sons Ltd (671) Tons. Net 3221
 Engines made at Sunderland By whom made G. Clark & Co (1069) when made 1918
 Boilers made at Sunderland By whom made G. Clark & Co (1068) when made 1918
 Registered Horse Power Owners Shipping Corporation Port belonging to London
 Nom. Horse Power as per Section 28 517 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Y

ENGINES, &c.—Description of Engines Triple No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 27.44.73 Length of Stroke 46 Revs. per minute 78 Dia. of Screw shaft as per rule 14.69 Material of screw shaft as fitted 15.5
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube Y Is the after end of the liner made water tight in the propeller boss Y If the liner is in more than one length are the joints burned Y 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 Y If two liners are fitted, is the shaft lapped or protected between the liners Y Length of stern bush 5-0 1/2"
 Dia. of Tunnel shaft as per rule 13.31 Dia. of Crank shaft journals as per rule 14 Dia. of Crank pin 14 1/2 Size of Crank webs 22 1/2 x 9 Dia. of thrust shaft under collars 14 3/4 Dia. of screw 17-6 Pitch of Screw 16-8 No. of Blades 4 State whether moveable No Total surface 98.2
 No. of Feed pumps 2 Diameter of ditto 4 Stroke 24 Can one be overhauled while the other is at work Y
 No. of Bilge pumps 2 Diameter of ditto 4 Stroke 24 Can one be overhauled while the other is at work Y
 No. of Donkey Engines 3 Sizes of Pumps 4 1/2 x 7 x 18 No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 4 at 3 1/2 In Holds, &c. No. 1. 2 @ 3 1/2 No. 2. 2 @ 3 1/2 No. 3. 2 @ 3 1/2
 No. 4. 1 @ 3 1/2
 No. of Bilge Injections 1 size 9 Connected to condenser to circulating pump Y Is a separate Donkey Suction fitted in Engine room of size 4 1/2
 Are all the bilge suction pipes fitted with roses Y Are the roses in Engine room always accessible Y Are the sluices on Engine room bulkheads always accessible Y
 Are all connections with the sea direct on the skin of the ship Y Are they Valves or Cocks Both
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stowhold plates Y Are the Discharge Pipes above or below the deep water line Below
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Y Are the Blow Off Cocks fitted with a spigot and brass covering plate Y
 What pipes are carried through the bunkers None How are they protected Y
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Y
 Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Y
 Dates of examination of completion of fitting of Sea Connections 27.5.18 of Stern Tube 3.6.18 Screw shaft and Propeller 3.6.18
 Is the Screw Shaft Tunnel watertight Y Is it fitted with a watertight door No worked from access by trunk from deck
BOILERS, &c.—(Letter for record 5) Manufacturers of Steel R. & L. Bell & Co. & John Spencer & Co.

BOILERS, &c.—(Letter for record 5) Manufacturers of Steel R. & L. Bell & Co. & John Spencer & Co.
 Total Heating Surface of Boilers 7448 Is Forced Draft fitted Y No. and Description of Boilers 3 Single Ended
 Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 27/5/18 No. of Certificate 3469
 Can each boiler be worked separately Y Area of fire grate in each boiler 63 1/2 No. and Description of Safety Valves to each boiler 2 Spring valves Area of each valve 9.6 1/2 Pressure to which they are adjusted 185 lbs Are they fitted with easing gear Y
 Smallest distance between boilers or uptakes and bunkers or woodwork 1-6 Mean dia. of boilers 15-6 Length 11-7 Material of shell plates S
 Thickness 1/4 Range of tensile strength 28.32 Are the shell plates welded or flanged No Descrip. of riveting: cir. seams Lap 1/4
 long. seams 1/4 1/2 1/2 Diameter of rivet holes in long. seams 1 5/16 Pitch of rivets 9 1/2 Lap of plates on width of butt straps 19 1/2
 Per centages of strength of longitudinal joint rivets 85.6 Working pressure of shell by rules 182 Size of manhole in shell 12 x 16
 Size of compensating ring None No. and Description of Furnaces in each boiler 3 Dignition Material S Outside diameter 4-2 3/8
 Length of plain part top 3 1/2 Thickness of plates bottom 3 3/2 Description of longitudinal joint W and No. of strengthening rings 23
 Working pressure of furnace by the rules 187 Combustion chamber plates: Material S Thickness: Sides 2 3/2 Back 1 1/2 Top 2 3/2 Bottom 2 3/2
 Pitch of stays to ditto: Sides 10 5/8 x 9 1/4 Back 8 3/4 x 10 1/4 Top 10 5/8 x 9 1/4 If stays are fitted with nuts or riveted heads Y Working pressure by rules 180
 Material of stays S Diameter at smallest part 2.31 Area supported by each stay 98.2 Working pressure by rules 216 End plates in steam space: Material S
 Diameter at smallest part 8.26 Area supported by each stay 432 Working pressure by rules 186 Material of Front plates at bottom S
 Thickness 3/16 Material of Lower back plate S Thickness 3/16 Greatest pitch of stays 13 5/8 Working pressure of plate by rules 183
 Diameter of tubes 2 3/4 Pitch of tubes 4 x 3 3/4 Material of tube plates S Thickness: Front 3/16 Back 3/4 Mean pitch of stays 9 1/2
 Pitch across wide water spaces 13 5/8 Working pressure by rules 181 Girders to Chamber tops: Material S Depth and thickness of girder at centre 10 x 1 3/4 Length as per rule 2-11 1/2 Distance apart 10 5/8 Number and pitch of stays in each 3-9 1/4
 Working pressure by rules 187 Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked separately Y
 Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
 If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed
 Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear Y

IS A DONKEY BOILER FITTED? NO If so, is a report now forwarded? —
SPARE GEAR. State the articles supplied: Two top end & two bottom end connecting rod bolts
and nuts. Two main bearing bolts one set connecting bolts one set for end and bilge
pump valves, assorted bolts and nuts. Draw of various signs.

The foregoing is a correct description.
FOR GEORGE CLARK LIMITED.

W. G. Smith Manufacturer.

Dates of Survey while building
During progress of work in shops -- Engines 1917 Oct 2. 15. Nov 5. 13. Dec 11. 14. 17. 18. 21. 24. Jan 8. 11. 17. 22. 28. Feb 4. 9. 13. 18. 25. Mar 2. 11. 13. 27. Apr 2. 15. 18.
During erection on board vessel -- 25. May 1917. Jun 3. 10. 14. Jul 27
Total No. of visits Boilers 1917 Nov 16. Dec 11. 14. 17. Jan 17. 28. 29. Feb 5. 8. 25. Mar 5. 18. 27
(47) Is the approved plan of main boiler forwarded herewith yes

Dates of Examination of principal parts—Cylinders 11. 1. 18 Slides 22. 1. 18 Covers 2. 1. 17 Pistons 11. 1. 18 Rods 3. 4. 18
Connecting rods 11. 3. 18 Crank shaft 27. 3. 18 Thrust shaft 22. 2. 18 Tunnel shafts 29. 5. 18 Screw shaft 27. 5. 18 Propeller 29. 3. 18
Stern tube 27. 5. 18 Steam pipes tested 27. 5. 18 Engine and boiler seatings 3. 6. 18 Engines holding down bolts 3. 6. 18
Completion of pumping arrangements 18. 6. 18 Boilers fixed 18. 6. 18 Engines tried under steam 15. 6. 18
Main boiler safety valves adjusted 15. 6. 18 Thickness of adjusting washers Per 13 1/2 P 3/8 S 3/8. Cuts 13 1/2 P 3/8 S 3/8. Star 13 1/2 P 3/8 S 3/8.
Material of Crank shaft Steel Identification Mark on Do. 81764H Material of Thrust shaft Steel Identification Mark on Do. 4531 W.L.H.
Material of Tunnel shafts Steel Identification Marks on Do. 180544H Material of Screw shafts Steel Identification Marks on Do. 867 W.L.H.
Material of Steam Pipes Iron Test pressure 5240 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 yes If so, state name of vessel Standard Type B.
General Remarks (State quality of workmanship, opinions as to class, &c.)

The machinery of this vessel has been built under special survey. The
materials and workmanship are sound and good and under the
vessel eligible in my opinion to have record of + LMC 7.18.

It is submitted that
this vessel is eligible for
THE RECORD. + LMC 7.18 F.D.

13. 5. 18 APR

The amount of Entry Fee ... £
Special ... £ 116. 8. 11 When applied for, 9. 8. 1918
Donkey Boiler Fee ... £ When received, 14. 9. 1918
Travelling Expenses (if any) £ 10. 9. 18

Committee's Minute
Assigned + R. Mc 7.18 F.D.
13. 8. 18