

# REPORT ON MACHINERY.

Date of writing Report 26th March 1918 When rendered in at Local Office 23 FEB 1918 Port of BUNDERLAND  
 No. in Survey held at BUNDERLAND Date, First Survey 15th May 17 Last Survey 22nd March 1918  
 Reg. Book. on the new steel 515" WAR POINTER  
 Master Built at Newcastle By whom built Armstrong Whitworth & Co. Ltd (No 1064) When built 1918  
 Engines made at Sunderland By whom made George Blenkins (No 1064) when made 1918  
 Boilers made at Sunderland By whom made George Blenkins (No 1064) when made 1918  
 Registered Horse Power 514 Owners The Shipping Controller Port belonging to London  
 Nom. Horse Power as per Section 28 514 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

**ENGINES, &c.—Description of Engines** Triple expansion No. of Cylinders 3 No. of Cranks 3  
 Dia. of Cylinders 24" 44" 73" Length of Stroke 48" Revs. per minute 75 Dia. of Screw shaft as per rule 14.69 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 no 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 no If two  
 liners are fitted, is the shaft lapped or protected between the liners no Length of stern bush 5'0"  
 Dia. of Tunnel shaft as per rule 13.32 Dia. of Crank shaft journals as per rule 14" Dia. of Crank pin 14" Size of Crank webs 22" x 9" Dia. of thrust shaft under  
 collars 14" Dia. of screw 11.6" Pitch of Screw 16.6" No. of Blades 4 State whether moveable no Total surface 1.0254  
 No. of Feed pumps 2 Diameter of ditto 4" Stroke 2'0" Can one be overhauled while the other is at work yes  
 No. of Bilge pumps 2 Diameter of ditto 4" Stroke 2'0" Can one be overhauled while the other is at work yes  
 No. of Donkey Engines 3 Sizes of Pumps 10 3/4" x 18" 9 3/4" x 18" 9 3/4" x 18" No. and size of Suctions connected to both Bilge and Donkey pumps  
 In Engine Room 4 @ 3 1/2" In Holds, &c. No 1 hold 2 @ 3 1/2" No 2 hold 2 @ 3 1/2"  
 No. of Bilge Injections 1 size 9" Connected to condenser, or to circulating pump to 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 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 below  
 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 no  
 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  
 Dates of examination of completion of fitting of Sea Connections 10-1-18 of Stern Tube 22-1-18 Screw shaft and Propeller 22-1-18  
 Is the Screw Shaft Tunnel watertight yes Is it fitted with a watertight door no worked from access by trunk from deck

**BOILERS, &c.—(Letter for record 5)** Manufacturers of Steel John Spence & Sons Ltd  
 Total Heating Surface of Boilers 7668 sq ft Is Forced Draft fitted yes No. and Description of Boilers three single ended marine  
 Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 16-11-14 No. of Certificate 3447  
 Can each boiler be worked separately yes Area of fire grate in each boiler 63 sq ft No. and Description of Safety Valves to  
 each boiler two direct spring Area of each valve 9.6 sq in Pressure to which they are adjusted 185 Are they fitted with easing gear yes  
 Smallest distance between boilers on uptakes and bunkers on woodwork 3'11" Mean dia. of boilers 15'6" Length 11'8 1/2" Material of shell plates steel  
 Thickness 1 1/2" Range of tensile strength 28-32 tons Are the shell plates welded or flanged no Descrip. of riveting: cir. seams DR  
 long. seams DBSTR Diameter of rivet holes in long. seams 1 1/2" Pitch of rivets 9 1/2" Lap of plates or width of butt straps 1'7 1/2"  
 Per centages of strength of longitudinal joint 89.2 Working pressure of shell by rules 182 Size of manhole in shell 16" x 12"  
 Size of compensating ring flanged No. and Description of Furnaces in each boiler 3 Deighton Material steel Outside diameter 4'2 3/16"  
 Length of plain part top 14" bottom 32" Thickness of plates top 14" bottom 32" Description of longitudinal joint welded No. of strengthening rings no  
 Working pressure of furnace by the rules 188 Combustion chamber plates: Material steel Thickness: Sides 3/32" Back 1/16" Top 3/32" Bottom 3/32"  
 Pitch of stays to ditto: Sides 10 5/8" x 1 1/2" Back 10 1/4" x 8 3/4" Top 10 5/8" x 1 1/2" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 180  
 Material of stays steel Diameter at smallest part 2.360" Area supported by each stay 98.50" Working pressure by rules 216 End plates in steam space  
 Material steel Thickness 1 1/2" Pitch of stays 21 3/4" x 20 1/2" How are stays secured on wash Working pressure by rules 190 Material of stays steel  
 Diameter at smallest part 8.290" Area supported by each stay 4730" Working pressure by rules 182 Material of Front plates at bottom steel  
 Thickness 3/32" Material of Lower back plate steel Thickness 3/32" Greatest pitch of stays 13 5/8" x 8 3/4" Working pressure of plate by rules 188  
 Diameter of tubes 1 3/4" Pitch of tubes 4 x 3 1/2" Material of tube plates steel Thickness: Front 3/32" Back 3/4" Mean pitch of stays 11 5/8" x 8"  
 Pitch across wide water spaces 13 5/8" Working pressures by rules 181 Girders to Chamber tops: Material steel Depth and  
 thickness of girder at centre 10" x 1 3/4" Length as per rule 35 9/16" Distance apart 10 5/8" Number and pitch of stays in each 3 @ 9 1/4"  
 Working pressure by rules 188 Superheater or Steam chest; how connected to boiler none Can the superheater be shut off and the boiler worked  
 separately no Diameter no Length no Thickness of shell plates no Material no Description of longitudinal joint no Diam. of rivet  
 holes no Pitch of rivets no Working pressure of shell by rules no Diameter of flue no Material of flue plates no Thickness no  
 If stiffened with rings no Distance between rings no Working pressure by rules no End plates: Thickness no How stayed no  
 Working pressure of end plates no Area of safety valves to superheater no Are they fitted with easing gear no



IS A DONKEY BOILER FITTED? *20* ✓

If so, is a report now forwarded? ✓

**SPARE GEAR.** State the articles supplied:— Two top-end, two bottom-end & two main-bearing bolts & nuts, a set of coupling bolts & a set of feed & bilge pump valves, a quantity of assorted bolts nuts & iron, six feed check valves, twelve junk ring studs, a propeller & H.P. piston valve.

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

W. S. Bruce

Manufacturer. 2 Mann Engelen Berlin

Dates of Survey while building	During progress of work in shops - -	1917. May 15, 30 June 2, 11, 13, 14, 15, 22, 29 July 10, 12, 13, 16, 23, 25 Aug. 1, 2, 13, 20, 22, 23, 24, 29 Sept. 4, 6, 7, 12, 13, 14, 25, 27, 28	
	During erection on board vessel - -	Oct. 2, 4, 5, 9, 12, 15, 17, 26, 29 Nov. 1, 2, 8, 13, 14, 19, 27, 29, 30 Dec. 5, 6, 11, 13, 14, 17, 18, 19 Jan. 15, 17, 22, 23, 25, 28, 29 Feb. 1, 4, 5, 8, 12, 13, 14	
	Total No. of visits	at mtr. 1918 Jan 10 Feb 27 Mar 15, 22 (70 + 4)	
		Is the approved plan of main boiler forwarded herewith	yes

Is the approved plan of main boiler forwarded herewith. yes

99 99 99 *donkey* 99 99 99

*Dates of Examination of principal parts—Cylinders 24-8-17 Slides 8-11-17 Covers 10-7-17 Pistons 27-9-17 Rods 25-9-17*

Connecting rods 2-11-17 Crank shaft 28-9-17 Thrust shaft 5-10-17 Tunnel shafts 6-12-17 Screw shaft 6-12-17 Propeller 15-1-18

Stern tube 15-1-18 Steam pipes tested 15 & 31-1-18 Engine and boiler seatings 10-1-18 Engines holding down bolts 1-2-18

Completion of pumping arrangements. 13-2-18      Boilers fixed 1-2-18      Engines tried under steam 12-2-18

Main boiler safety valves adjusted 12-2-18 Thickness of adjusting washers: For 14" P5  $\frac{5}{16}$  53, 16 inch 14" P1  $\frac{5}{16}$  55, 18 inch 18" P5  $\frac{5}{16}$  53.

Material of Crank shaft Steel Identification Mark on Do. 816 DDW Material of Thrust shaft Steel Identification Mark on Do. 4513 SAR

Material of Tunnel shafts Scrap Iron Identification Marks on Do. 816 DSW Material of Screw shafts Scrap Iron Identification Marks on Do. 816 DSW

Material of Steam Pipes Lap welded woot iron ✓ Test pressure 540 lbs. 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 "A"

**General Remarks** (State quality of workmanship, opinions as to class, &c. To complete the survey the review down

It is a little + inside the ... the deck and the

with person names in a list. The person paper - the first name is on the left - the last name is on the right - the middle name is in the middle.

Spare glass to be supplied and checked. Vessel returned to K Lynn for completion. Newcastle Surveyors advised.

The material and workmanship is good.

The machinery has been constructed under special survey and is eligible in our opinion for classification.

and the reserve  $\pm$  LMC 3/8 when the survey is complete.

The record has been lifted by covering oil fuel in the double bottom

...with the living to be the dead

[illegible]

Beasts.

A report on the electric installation will be forwarded when

received from the Lecturers.

Screw down non-return valves to helge sections made workable from dec

It is submitted that

*this vessel is eligible for*

THE RECORD. + LMC 3.18. F.D. 27

109

10/4/18

The amount of Entry Fee ... £ : When applied for, ...

Special ...

... Sp. Davis, W. L. Hall, & Thomas Beck ...

... English System of Yellow Register of British & Foreign Shipping ...

Travelling Expenses (if any) £ 0-6-10/18

11-4-18

Committee's Minute FRI. APR. 21. 1916.

Assigned 7 d. MO 3:18 p.m.

MACHINERY CERTIFICATE  
WRITER.



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Foundation