

# REPORT ON MACHINERY.

No. 27245

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30 MAY 1918 Port of Sunderland

Date, First Survey 9 Oct. Last Survey 23-5-1918

of writing Report in Survey held at Sunderland

eg. Book. 133 on the new steel S/S "WAR" "VISOR"

Master Broomfield Built at Sunderland By whom built S.P. Austin & Sons Ltd (No. 2195) When built 1918

Engines made at Sunderland By whom made Richardson Westgarth & Co. Ltd (No. 2138) when made 1918

Boilers made at Sunderland By whom made Richardson Westgarth & Co. Ltd (No. 2138) when made 1918

Registered Horse Power \_\_\_\_\_ Owners The Shipping Controller Port belonging to London

Com. Horse Power as per Section 28 410 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

No. of Cylinders 25 Length of Stroke 45 Revs. per minute 76 Dia. of Screw shaft 13.4 Material of Cast Iron

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

on 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 5-0

Dia. of Tunnel shaft 12.4 Dia. of Crank shaft journals 13.0 Dia. of Crank pin 13.4 Size of Crank webs 22.2 Dia. of thrust shaft under

collars 13.4 Dia. of screw 15.6 Pitch of Screw 17-0 No. of Blades 4 State whether moveable no Total surface 75 sq

No. of Feed pumps 2 Diameter of ditto 3.5 Stroke 24 Can one be overhauled while the other is at work yes

No. of Bilge pumps 2 Diameter of ditto 3.5 Stroke 24 Can one be overhauled while the other is at work yes

No. of Donkey Engines 4 Sizes of Pumps 2 @ 9.5, 1 @ 18, 2 @ 10, 1 @ 12, 1 @ 2 No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room 3 @ 3 In Holds, &c. No. 1 hold - 2 @ 3, No. 2 hold - 2 @ 3

cross bunkers 2 @ 3, No. 3 hold - 2 @ 3, No. 4 hold - 1 @ 3, Tunnel well - 1 @ 3

No. of Bilge Injections 1 sizes 8 Connected to condenser, or to circulating pump 6 P. Is a separate Donkey Suction fitted in Engine room & size yes 3

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 sized 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 main below, other 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

Dates of examination of completion of fitting of Sea Connections 18-2-18 of Stern Tube 13-4-18 Screw shaft and Propeller 13-4-18

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 S) Manufacturers of Steel John Spence & Sons Ltd.

Total Heating Surface of Boilers 5870 sq Is Forced Draft fitted yes No. and Description of Boilers two single ended marine

Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 22-3-18 No. of Certificate 3468

Can each boiler be worked separately yes Area of fire grate in each boiler 75 sq No. and Description of Safety Valves to

each boiler two direct spring Area of each valve 12.56 sq Pressure to which they are adjusted 185 Are they fitted with easing gear yes

Smallest distance between boiler or uptakes and bunkers 18 Mean dia. of boilers 16-6 Length 11-9 Material of shell plates steel

Thickness 1 1/2 Range of tensile strength 29 1/2 - 33 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams DR

long. seams ABS. TR Diameter of rivet holes in long. seams 1 3/8 Pitch of rivets 9 3/8 Lap of plates or width of butt straps 1-8 1/8

Per centages of strength of longitudinal joint 87.2 Working pressure of shell by rules 209 Size of manhole in shell 16 x 12

Size of compensating ring flanged No. and Description of Furnaces in each boiler 4 Deighton Material steel Outside diameter 3-8 1/2

Length of plain part top Thickness of plates bottom 1 9/16 Description of longitudinal joint welded No. of strengthening rings yes

Working pressure of furnace by the rules 198 Combustion chamber plates: Material steel Thickness: Sides 3 3/32 Back 3/4 Top 2 3/32 Bottom 2 3/32

Pitch of stays to ditto: Sides 10 1/8 x 8 3/4 Back 10 1/8 x 9 Top 10 1/8 x 8 3/4 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 200

Material of stays steel Diameter at smallest part 2.030 Area supported by each stay 88.60 Working pressure by rules 206 End plates in steam space:

Material steel Thickness 1 1/8 Pitch of stays 24 x 22 1/2 How are stays secured DN. Working pressure by rules 180 Material of stays steel

Diameter at smallest part 8.48 Area supported by each stay 4900 Working pressure by rules 180 Material of Front plates at bottom steel

Thickness 1 Material of Lower back plate steel Thickness 1 1/8 Greatest pitch of stays 13 3/4 x 9 1/2 Working pressure of plate by rules 196

Diameter of tubes 2 3/4 Pitch of tubes 3 1/8 x 4 Material of tube plates steel Thickness: Front 1 Back 3/4 Mean pitch of stays 9 1/8

Pitch across wide water spaces 13 3/4 Working pressures by rules 191 Girders to Chamber tops: Material steel Depth and

thickness of girder at centre 2 @ 10 x 1 1/8 Length as per rule 35 1/2 Distance apart 10 1/2 Number and pitch of stays in each 3 @ 8 3/4

Working pressure by rules 192 Superheater or Steam chest; how connected to boiler none Can the superheater be shut off and the boiler worked

separately \_\_\_\_\_ 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 \_\_\_\_\_

2m. 114. T.

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