

REPORT ON MACHINERY.

No. 27245

Received at London Office

FRI MAY 31 1918

30 MAY 1918

Port of

Sunderland

Date, First Survey

9 Oct.

Last Survey

23-5-1918

(Number of Vents

25

Gross

2362

of writing Report

18

When handed in at Local Office

in Survey held at

Sunderland

eg. Book.

No. 133 on the new steel S/S "WAR" VISOR

Master Broomfield Built at Sunderland By whom built S.P. Austin & Son Ltd (N° 2138) When built 1918

Engines made at Sunderland By whom made Richardson Westgarth & Co Ltd (N° 2138) when made 1918

Boilers made at Sunderland By whom made Richardson Westgarth & Co Ltd (N° 2138) when made 1918

Registered Horse Power Owners The Shipping Controller Port belonging to London

Total Horse Power as per Section 28 410 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

MACHINES, &c.—Description of Engines Triple expansion No. of Cylinders 3 No. of Cranks 3

Dia. of Cylinders 25" 41" 68" Length of Stroke 45" Revs. per minute 76 Dia. of Screw shaft as per rule 13" 4" Material of Screw shaft as fitted 12 1/2" screw shaft Scrap 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

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 5'-0"

Dia. of Tunnel shaft as per rule 12" 4" Dia. of Crank shaft journals as per rule 13" 0 1/2" Dia. of Crank pin 13 1/2" Size of Crank webs 22" 20 1/2" Dia. of thrust shaft under

collars 13 1/2" Dia. of screw 15" 6" Pitch of Screw 17" 0" No. of Blades 4 State whether moveable no Total surface 75 sq ft

No. of Feed pumps 2 Diameter of ditto 3 1/2" Stroke 24" Can one be overhauled while the other is at work yes

No. of Bilge pumps 2 Diameter of ditto 3 1/2" Stroke 24" Can one be overhauled while the other is at work yes

No. of Donkey Engines 4 Sizes of Pumps 2 @ 9 1/2" 1 @ 18" 2 @ 10 1/2" 1 @ 12 1/2" No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room 3 @ 3" In Holds, &c. N° 1 hold 2 @ 3" N° 2 hold 2 @ 3"

Lumpsums 2 @ 3" N° 3 hold 2 @ 3" N° 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 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 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

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 5) Manufacturers of Steel John Spencer & Sons Ltd.

Total Heating Surface of Boilers 5870 sq ft 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 ft No. and Description of Safety Valves to

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

Smallest distance between boiler or uptakes and bunkers on deck 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 DBS. 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 rivets 87.2 plate 85.3 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 19" crown 19" Description of longitudinal joint welded No. of strengthening rings

Working pressure of furnace by the rules 198 Combustion chamber plates: Material steel Thickness: Sides 23/32" Back 3/4" Top 23/32" Bottom 23/32"

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 stay steel Area 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 1/2" Pitch of stays 24" x 22 1/2" How are stays secured DR Working pressure by rules 180 Material of stays steel

Area at smallest part 8.480" 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 1/2" x 9 1/2" Working pressure of plate by rules 196

Diameter of tubes 2 1/4" 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 3/8" 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

IS A DONKEY BOILER FITTED? no

If so, is a report now forwarded? ☒

SPARE GEAR. State the articles supplied: - Two connecting rod top and bottom end bolts and two main bearing bolts, two sets of coupling bolts, one set of feed and bidge pump iron and bolts of various sizes, one propeller and one piston valve for main engine

The foregoing is a correct description,
FOR RICHARDSONS, WESTGARTH & CO., LTD

Frederic H Russell

Manufacturer.

Dates of Survey while building
During progress of work in shops - -
During erection on board vessel - -
Total No. of visits

1917 Oct 9, 14, 20, 30, Nov 9, Jan 5, Feb 6, 13, 18, Mar 6, 20, 22, Apr 5, 11, 13, 15, 16, 25
May 1, 7, 10, 14, 15, 21, 23
25

Is the approved plan of main boiler forwarded herewith ☒

" " " donkey " " "

Dates of Examination of principal parts - Cylinders 6-3-18 Slides 20-3-18 Covers 22-3-18 Pistons 20-3-18 Rods 13-2-18 Connecting rods 13-2-18 Crank shaft Hpl Thrust shaft 11-4-18 Tunnel shafts 11-4-18 Screw shaft 11-4-18 Propeller 11-4-18 Stern tube 5-4-18 Steam pipes tested 10-5-18 Engine and boiler seatings 18-2-18 Engines holding down bolts 25 Completion of pumping arrangements 23-5-18 Boilers fixed 16-4-18 Engines tried under steam 14-5-18 Main boiler safety valves adjusted 14-5-18 Thickness of adjusting washers Port 1 3/8" 5 3/8" full: 5 1/2" 1 1/2" Material of Crank shaft Steel Identification Mark on Do 5976 AB Material of Thrust shaft Steel Identification Mark on Do. Number of Material of Tunnel shafts 20000W Identification Marks on Do. 89000W Material of Screw shafts 20000W Identification Marks on Do. 89000W Material of Steam Pipes lap welded wrought iron Test pressure 540 lbs per 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 "D" type.

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

The material and workmanship is good

The machinery has been constructed under special survey and is eligible in my opinion for classification and the record + LMC 5.18.

It is submitted that
this vessel is eligible for
THE RECORD. + LMC 5.18. F.D.

W.D.
2/5/18

The amount of Entry Fee ... £

Special ... £ 52

Donkey Boiler Fee ... £

Travelling Expenses (if any) £

When applied for,

When received,

Engineer Surveyor to Lloyd's Register of British & Foreign Steamships

Committee's Minute

TUE JUN 4 1918

Assigned

+ LMC 5.18 F.D.

MACHINERY CERTIFICATE
WRITTEN.



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Foundation