

REPORT ON MACHINERY.

No. 27235

Received at London office

THU. 16 MAY. 1918

of writing Report 7.5.18 When handed in at Local Office 15 MAY 1918 Port of Sunderland
 in Survey held at Sunderland Date, First Survey 18 May 17 Last Survey 3 May 1918
 Book. III on the new steel S/S "WAR WAGER" Number of Visits 5230
5170
 Gross 5170
 Net 3170
 3186
 Tons
 Built at Sunderland By whom built J. & S. Thompson & Sons Ltd. When built 1918
 Lines made at Sunderland By whom made North Eastern Marine Eng. Co. Ltd. (No. 2320) when made 1918
 Makers made at Sunderland By whom made North Eastern Marine Eng. Co. Ltd. (No. 2320) when made 1918
 Registered Horse Power 517 Owners The Shipping Controller Port belonging to London
 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes
 GINES, &c.—Description of Engines Triple expansion No. of Cylinders 3 No. of Cranks 3
 No. of Cylinders 21-44-73 Length of Stroke 48 Revs. per minute 75 Dia. of Screw shaft 14.39 Material of Steel
as per rule 14.39 as fitted 15.5 screw shaft
 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
 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 yes If two
 liners are fitted, is the shaft lapped or protected between the liners yes Length of stern bush 5'-0 1/2"
 Dia. of Tunnel shaft as per rule 13.32 as fitted 13.5 Dia. of Crank shaft journals as per rule 14 as fitted 14.5 Dia. of Crank pin 14 1/2 Size of Crank webs 22 1/2 x 9 Dia. of thrust shaft under
 bars 14 1/2 Dia. of screw 14-6 Pitch of Screw 16-6 No. of Blades 4 State whether moveable no Total surface 102 ft
 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 2 @ 9 1/2 & 1 1/2, 1 @ 10 1/2 & 14 1/2 No. and size of Suctions connected to both Bilge and Donkey pumps
 Engine Room 4 @ 3 1/2" In Holds, &c. Pump room - 2 @ 3". longhold (aft)
 @ 3". Tunnel well 10 3". brass bunker, - 2 @ 3 1/2".
 No. of Bilge Injections 1 sizes 9" Connected to condenser, or to circulating pump no 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
 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
 Dates of examination of completion of fitting of Sea Connections 25-2-18 of Stern Tube 25-2-18 Screw shaft and Propeller 11-3-18
 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 Spencer & Sons Ltd.
 Total Heating Surface of Boilers 7668 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 25-9-17 No. of Certificate 3430
 Can each boiler be worked separately yes Area of fire grate in each boiler 63 ft No. and Description of Safety Valves to
 each boiler two direct spring Area of each valve 9.60" Pressure to which they are adjusted 185 Are they fitted with easing gear yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 5'-0" 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 D.R.
 Long. seams D.B.S.T.R. Diameter of rivet holes in long. seams 1 5/16" Pitch of rivets 9 1/8" Lap of plates or width of butt straps 1-7 1/2"
 Per centages of strength of longitudinal joint rivets 88.2 Working pressure of shell by rules 182 Size of manhole in shell 16" x 12"
 plate 85.6
 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 19" bottom 32" Thickness of plates top 19" bottom 32" Description of longitudinal joint welded No. of strengthening rings yes
 Working pressure of furnace by the rules 188 Combustion chamber plates: Material steel Thickness: Sides 23/32" Back 11/16" Top 23/32" Bottom 23/32"
 Pitch of stays to ditto: Sides 10 5/8" x 9 1/2" Back 10 1/4" x 8 1/2" Top 10 5/8" x 9 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 2-3/16" Area supported by each stay 98.5 Working pressure by rules 216 End plates in steam space
 Material steel Thickness 1 1/2" Pitch of stays 21 1/4"-21 3/4" How are stays secured ON & Wash Working pressure by rules 180 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 31/32" Material of Lower back plate steel Thickness 21/32" Greatest pitch of stays 13 5/8" x 8 3/4" Working pressure of plate by rules 188
 Diameter of tubes 2 3/4" Pitch of tubes 4" x 3 1/8" Material of tube plates steel Thickness: Front 31/32" 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 yes 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 yes

IS A DONKEY BOILER FITTED? no

If so, is a report now forwarded? ✓

SPARE GEAR. State the articles supplied:— Two connecting rods top and bottom end bolts and nuts, two main bearing bolts, one set of coupling bolts, one set of feed and bilge pump valves, iron and bolts of various sizes, one propeller.

The foregoing is a correct description.

FOR THE NORTH EASTERN MARINE ENGINEERING CO. LTD.

W. D. New

Manufacturer.

Monmouth.

Dates of Survey while building { During progress of work in shops -- 1917 May 18, 21, 23 Jun 19, 21, 25 Jul 10, 13, 24, 25, 30 Aug 2, 10, 13, 25 Sep 7, 12, 25, 27 Oct 9, 11, 16, 23 Nov 2, 7
During erection on board vessel -- 2, 13, 14, 16, 21, 27 Dec 13 Jan 4, 16, 18, 22, 23 Feb 12, 25 Mar 11, 21, 27 Apr 4, 5, 25, 29, 30 May 2, 3
Total No. of visits (49)

Is the approved plan of main boiler forwarded herewith yes

" " " donkey " " " yes

Dates of Examination of principal parts—Cylinders 13-11-17 Slides 7-11-17 Covers 7-11-17 Pistons 8-11-17 Rods 30-7-17

Connecting rods 30-7-17 Crank shaft 27-11-17 Thrust shaft 13-12-17 Tunnel shafts 27-11-17 Screw shaft 16-1-18 Propeller 13-12-17

Stern tube 22-1-18 Steam pipes tested 23-3-18 Engine and boiler seatings 25-2-18 Engines holding down bolts 4-4-18

Completion of pumping arrangements 2-5-18 Boilers fixed 27-3-18 Engines tried under steam 5-4-18

Main boiler safety valves adjusted 5-4-18 Thickness of adjusting washers Top 1 1/2" 5 1/2" 5 1/2" 5 1/2" 5 1/2" 5 1/2" 5 1/2" 5 1/2" 5 1/2" 5 1/2"

Material of Crank shaft Steel Identification Mark on Do. 2991N.W. Material of Thrust shaft Steel Identification Mark on Do. 2991N.W.

Material of Tunnel shafts Steel Identification Marks on Do. 2991N.W. Material of Screw shafts Steel Identification Marks on Do. 2991N.W.

Material of Steam Pipes Lap welded wrought iron Test pressure 540 lbs per sq. in.

Is an installation fitted for burning oil fuel yes Is the flash point of the oil to be used over 150°F. yes

Have the requirements of Section 49 of the Rules been complied with yes

Is this machinery duplicate of a previous case yes If so, state name of vessel Standard A type - counter roller

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

The materials and workmanship are good.

The machinery has been constructed under special survey and is eligible in my opinion for classification and the records + LMC 5.18. Fitted for oil fuel 5.18. F.P. above 150°F.

It is submitted that

this vessel is eligible for

THE RECORD + LMC 5.18 F.D.

Fitted for oil fuel 5.18 F.P. above 150°F. JP

JUD.

21/5/18.

The amount of Entry Fee ... £ 9 : - : When applied for,

Special £ 137 : 11 : - 7-5-18

Donkey Boiler Fee ... £ : : When received,

Travelling Expenses (if any) £ : : 24-5-18 29-5-18

Committee's Minute

WED. 22 MAY. 1918

Assigned

I + LMC 5.18. J.D.
Fitted for Oil fuel 5.18 F.P. above 150°F

Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.



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