

REPORT ON MACHINERY.

No. 2312

Received at London Office

WED. 20 NOV. 1918

Date of writing Report

When handed in at Local Office

Port of

No. in Survey held at Osaka and Innoshima
Reg. Book.

Date, First Survey

Last Survey July 2nd 1918on the Steel Triple Screw Steamer "War Maid"

(Number of Vessels)

Gross 4378.88Net 2767.33Master G. BakerBuilt at InnoshimaBy whom built Osaka Iron Works (Innoshima branch)When built 1918Engines made at OsakaBy whom made Osaka Iron Workswhen made 1918Boilers made at OsakaBy whom made Osaka Iron Workswhen made 1918

Registered Horse Power

Owners Butterfield and Swire

Port belonging to

Nom. Horse Power as per Section 28 390Is Refrigerating Machinery fitted for cargo purposes noIs Electric Light fitted YesENGINES, &c.—Description of Engines Triple ExpansionNo. of Cylinders ThreeNo. of Cranks ThreeDia. of Cylinders 24, 41, 67Length of Stroke 48Revs. per minute 65

Dia. of Screw shaft

as per rule 13.96Material of Steelas fitted 14 1/2

screw shaft

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

n the propeller boss Yes If the liner is in more than one length are the joints burned Yes

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 Charly fitted

If two

liners are fitted, is the shaft lapped or protected between the liners

Length of stern bush 5-4"

Dia. of Tunnel shaft

as per rule 15.46as fitted 15 3/4

Dia. of Crank shaft journals

as per rule 13.09as fitted 13 1/4Dia. of Crank pin 13 1/2Size of Crank webs 8 1/2 x 25

Dia. of thrust shaft under

collars 13 1/4Dia. of screw 17-0"Pitch of Screw 17-0"No. of Blades 4State whether moveable noTotal surface 90 sq ftNo. of Feed pumps TwoDiameter of ditto 4"Stroke 25"Can one be overhauled while the other is at work YesNo. of Bilge pumps TwoDiameter of ditto 4"Stroke 25"Can one be overhauled while the other is at work YesNo. of Donkey Engines TwoSizes of Pumps General 9 1/2 x 2 x 10

No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room Two wings 3 1/2Tunnel well 3 1/2In Holds, &c. After hold 2 @ 3 1/2 cu ft & 2 @ 3 1/4No. of Bilge Injections 1sizes 7"Connected to condenser, or to circulating pump CircuitsIs a separate Donkey Suction fitted in Engine room & size Yes 3 1/2Are all the bilge suction pipes fitted with roses YesAre the roses in Engine room always accessible YesAre the sluices on Engine room bulkheads always accessible NoneAre all connections with the sea direct on the skin of the ship YesAre they Valves or Cocks Larger valves

Smaller cocks

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates YesAre the Discharge Pipes above or below the deep water line AboveAre they each fitted with a Discharge Valve always accessible on the plating of the vessel YesAre the Blow Off Cocks fitted with a spigot and brass covering plate Yes

What pipes are carried through the bunkers

How are they protected YesAre all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times YesAre the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges YesDates of examination of completion of fitting of Sea Connections June 10thof Stern Tube 25th AprilScrew shaft and Propeller May 1stIs the Screw Shaft Tunnel watertight YesIs it fitted with a watertight door Yesworked from Upper framing in Engine RoomBOILERS, &c.—(Letter for record S)Manufacturers of Steel North Bros. Ltd. Beaudenham Co. Brighton Patent SteelTotal Heating Surface of Boilers 5400 sq ftIs Forced Draft fitted YesNo. and Description of Boilers Two Single ended

LLOYD TEST

Working Pressure 180 lbsTested by hydraulic pressure to 360 lbsDate of test 16 June 1918No. of Certificate 360

LBS.

Can each boiler be worked separately YesArea of fire grate in each boiler 63 1/4 sq ft

No. and Description of Safety Valves to

each boiler 2 Spring loadedArea of each valve 3" diaPressure to which they are adjusted 185 lbsAre they fitted with easing gear YesSmallest distance between boilers or uptakes and bunkers or woodwork 12"Mean dia. of boilers 15-0"Length 12-0"Material of shell plates SteelThickness 1 1/4"Range of tensile strength 28-32 tonsAre the shell plates welded or flanged noDescrip. of riveting: cir. seams DRlong. seams TRDBSDiameter of rivet holes in long. seams 1 1/16"Pitch of rivets 9 x 4 1/2Lap of plates or width of butt straps 19 1/2 x 1 1/8

Per centages of strength of longitudinal joint

rivets 80-25Working pressure of shell by rules 188 lbsSize of manhole in shell 12" x 16"Size of compensating ring 2-10 x 3-2 x 1 1/2No. and Description of Furnaces in each boiler 3 BrightonMaterial SteelOutside diameter 48 1/4"

Length of plain part

top 19 1/2"

Thickness of plates

bottom 1 1/2"Description of longitudinal joint weld

No. of strengthening rings

Working pressure of furnace by the rules 199 lbsCombustion chamber plates: Material SteelThickness: Sides 5/8"Back 7/8"Top 7/8"Bottom 7/8"Pitch of stays to ditto: Sides 8 x 8 1/2Back 8 1/2 x 8 1/2Top 9 x 8If stays are fitted with nuts or riveted heads nutsWorking pressure by rules 187 lbsMaterial of stays SteelDiameter at smallest part 1 7/8"Area supported by each stay 8 1/2 x 8 1/2Working pressure by rules 187 lbs

End plates in steam space

Material SteelThickness 1 1/32"Pitch of stays 18 x 20How are stays secured Double nut & washersWorking pressure by rules 194Material of stays SteelDiameter at smallest part 7 5/8"Area supported by each stay 18 x 20Working pressure by rules 216Material of Front plates at bottom SteelThickness 3/4"Material of Lower back plate SteelThickness 3/4"Greatest pitch of stays 13 3/4"Working pressure of plate by rules 180 lbsDiameter of tubes 3"Pitch of tubes 1 1/8 x 1 1/4Material of tube plates SteelThickness: Front 3/4"Back 3/4"Mean pitch of stays 9 1/2"Pitch across wide water spaces 13 1/4"Working pressures by rules 180 lbsGirders to Chamber tops: Material Steel

Depth and

thickness of girder at centre 9 1/2 x 7 1/2Length as per rule 33 1/2"Distance apart 9"Number and pitch of stays in each 3 @ 8"Working pressure by rules 212 lbsSuperheater 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

Lloyd's Register

Foundation

006369-006386-0313

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:-

4 Connecting Rod top end bolts & nuts. One set disc valve springs.
2 Connecting Rod bottom end bolts & nuts. " " Eccentric rods.
2 Main bearing bolts. One pump rod.
1 set of feed and bilge pump valves. Two Safety valve springs.
1 set piston springs. Assorted bolts & nuts.
1 set of crank pin & crosshead brasses. Steel plate (various)

The foregoing is a correct description,

G. Yemudas

Manufacturer.



Dates of Survey while building { During progress of work in shops -- July 6, 10, 14, 28 August 10, 16, 29 Sept 3, 9, 29. 1917.
During erection on board vessel -- May 11, 17, 28 June 3, 10, 21 and July 2. 1918.
Total No. of visits 17.

Is the approved plan of main boiler forwarded herewith.

Dates of Examination of principal parts--Cylinders July 6. Slides July 6/17 Covers July 6/17 Pistons July 6/17 Rods July 6/17
Connecting rods July 6/17 Crank shaft July 10/17 Thrust shaft Aug 17/17 Tunnel shafts Aug 29/17 Screw shaft 19 Nov 17 Propeller
Stern tube 20 Apr 18 Steam pipes tested 28 May. Engine and boiler seatings May 14 Engines holding down bolts May 28
Completion of pumping arrangements June 10 Boilers fixed May 28 Engines tried under steam 6 June
Main boiler safety valves adjusted 4 June Thickness of adjusting washers lock nuts
Material of Crank shaft Steel Identification Mark on Do. LLOYD'S 18.1.18 ALT R Material of Thrust shaft Steel Identification Mark on Do. LLOYD'S 18.1.18 ALT R
Material of Tunnel shafts Steel Identification Marks on Do. LLOYD'S 20.29.8.17 ALT R Material of Screw shafts Steel Identification Marks on Do. LLOYD'S 19.11.17 ALT R
Material of Steam Pipes Steel Test pressure 540 lbs.

Is an installation fitted for burning oil fuel ho

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 S.S. Indus Maru and S.S. Neikos Maru

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

Kobe Report nos. 2070. 2160. 2166. 2175. 2247.

The Machinery has been made and fitted under Special Survey in accordance with the requirements of the Rules and the materials and workmanship have been found good.
In my opinion the machinery of this vessel is eligible for the record of + LMC 7.18.

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

The amount of Entry Fee ... £ Yen 30.00
Special ... £ Yen 593.00
Donkey Boiler Fee ... £
Travelling Expenses (if any), £

When applied for,

June 1918

When received,

June 17 1918

Committee's Minute

FRI. 22 NOV. 1918

Assigned

+ LMC 6 7 18

F.D.

MACHINERY FITTED
WINTER
recent copy
24/7/19.

R. B. Batchelor

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

TUE. 17 DEC. 1918
FRI. 31 JAN. 1919

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