

W676-0080

Rpt. 4.

REPORT ON MACHINERY.

WED. 12 MON. 3. 8. 4. 0

WED. 2-JUL. 1919

Received at London Office

Date of writing Report

19

When handed in at Local Office

16.6.

19. Port of

Glasgow

No. in Survey held at

Reg. Book.

on the

S.S. "WAR WAZIR"

Date, First Survey

9/11/19

Last Survey

2-6-

1919.

(Number of Visits)

39

now "NOMA"

Master

Built at Glasgow

By whom built

R. Duncan & Co. (No. 339)

Tons

Gross 5553

Engines made at

Glasgow

By whom made

R. Duncan & Co. Ltd (No. 705)

When made

1919

Boilers made at

Glasgow

By whom made

R. Duncan & Co. Ltd (No. 705)

When made

1919

Registered Horse Power

Owners Imperial Japanese Navy

Port belonging to

Tokyo

Nom. Horse Power as per Section 28

517

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

27.44.73

Length of Stroke

48"

Revs. per minute

80

Dia. of Screw shaft

as per rule 14.7"

Material of

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

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

Yes

If two

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

Length of stern bush

5.02"

Dia. of Tunnel shaft

as per rule 13.3"

Dia. of Crank shaft journals

as per rule 14"

Dia. of Crank pin

14.5"

Size of Crank webs

9x28"

Dia. of thrust shaft under

collars

14.3/4"

Dia. of screw

17-6"

Pitch of Screw

16-6"

No. of Blades

4

State whether moveable

Yes

Total surface

98.24

No. of Feed pumps

2

Diameter of ditto

4"

Stroke

24"

Can one be overhauled while the other is at work

Yes

No. of Bilge pumps

2

Diameter of ditto

4"

Stroke

24"

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines

3

Sizes of Pumps

10 1/2 x 14 x 24

Baltic

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

In Engine Room

Three 3 1/2"

In Holds, &c.

Four 3 1/2" aft hold

In Engine Room

Three 3 1/2"

Stokehold

Two 3 1/2"

In Holds, &c.

Four 3 1/2"

aft hold

Two 3 1/2"

Stokehold

one 3 1/2"

No. of Bilge Injections

1

sizes

12"

Connected to condenser, or to circulating pump

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 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

7 x Suction

How are they protected

Iron Plates

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

Is the Screw Shaft Tunnel watertight

Yes

Is it fitted with a watertight door

No

worked from

Trunkway escape fitted

Yes

BOILERS, &c.—(Letter for record

S)

Manufacturers of Steel

The Steel Company of Scotland Limited

Total Heating Surface of Boilers

7668

Is Forced Draft fitted

Yes

No. and Description of Boilers

3 Single end

a

Working Pressure

180

Tested by hydraulic pressure to

360

Date of test

23.12.18

No. of Certificate

14569

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

63.34

No. and Description of Safety Valves to

each boiler

2 Spring loaded

Area of each valve

9.64

Pressure to which they are adjusted

185 lb

Smallest distance between boilers or uptakes and bunkers or woodwork

1-6"

Mean dia. of boilers

15-6"

Length

11-6"

Material of shell plates

Steel

Thickness

1 1/4"

Range of tensile strength

28 to 32 tons

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

Lap

long. seams

TRDBS

Diameter of rivet holes in long. seams

1 5/8"

Pitch of rivets

9 1/8"

Lap of plates or width of butt straps

19 1/2"

Per centages of strength of longitudinal joint

rivets 88.3

plate 85.6

Working pressure of shell by rules

183

Size of manhole in shell

16x12"

Size of compensating ring

and flange

No. and Description of Furnaces in each boiler

3 Corrugated

Material Steel

Length of plain part

top

Thickness of plates

crown 19"

bottom 31"

Description of longitudinal joint

weld

No. of strengthening rings

-

Working pressure of furnace by the rules

188

Combustion chamber plates: Material

Steel

Pitch of stays to ditto: Sides

10 5/8 x 9 1/4"

Back

10 5/8 x 8 3/4"

Top

10 5/8 x 9 1/4"

If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules

180

Material of stays

Steel

Area at smallest part

2.394

Area supported by each stay

9.84"

Working pressure by rules

289

End plates in steam space:

Material

Steel

Material

Steel

Thickness

1 1/32"

Pitch of stay

2 1/4 x 20 1/2"

How are stays secured

Nuts

Working pressure by rules

181

Material of stays

Steel

Area at smallest part

2.294

Area supported by each stay

4.454

Working pressure by rules

198

Material of Front plates at bottom

Steel

Thickness

7/8"

Material of Lower back plate

Steel

Thickness

22/32"

Greatest pitch of stays

13 5/8 x 8 3/4"

Working pressure of plate by rules

187

Diameter of tubes

2 3/4"

Pitch of tubes

4 x 3 3/8"

Material of tube plates

Steel

Thickness: Front

3 1/32"

Back

3/4"

Mean pitch of stays

9 7/8"

Pitch across wide water spaces

13 5/8"

Working pressures by rules

181

Girders to Chamber tops: Material

Steel

Thickness of girder at centre

10 x (7 1/2 x 2)

Length as per rule

35 7/8"

Distance apart

10 5/8"

Number and pitch of stays in each

Three

4 1/4"

Working pressure by rules

188

Steam dome: description of joint to shell

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

Pitch of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

SUPERHEATER. Type

None

Date of Approval of Plan

Tested by Hydraulic Pressure to

Date of Test

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Pressure to which each is adjusted

Is Easing Gear fitted

Lloyd's Register

Foundation

IS A DONKEY BOILER FITTED?

no

If so, is a report now forwarded?

SPARE GEAR.

State the articles supplied:-

Two top and two bottom end two main bearing and six coupling bolts & nuts. Set of feed and bilge pump valves, assorted iron bolts and nuts and other spares as required by Specification.

The foregoing is a correct description,

David Cowan & Co Ltd per Alex Lane Manufacturer.

Dates of Survey while building { During progress of work in shops - 1917 Nov 9, 1918 Apr 14, June 5, 14, Aug 1, 6, Sept 2, 11, 20, Oct 1, 4, 7, 8, 16, 28, Nov 4, 22, Dec 5, 11, 12, 16, 19, 23
During erection on board vessel - 1919 Jan 8, 10, 12, 22, 23, 27, Feb 11, 14, 18, 24, Apr 2, 4, 9, May 28, June 2.
Total No. of visits 39.

Is the approved plan of main boiler forwarded herewith no

" " " donkey " " "

Dates of Examination of principal parts - Cylinders 2.4.12.18 Slides 2.4.12.18 Covers 2.4.12.18 Pistons 2.4.12.18 Rods 2.4.12.18

Connecting rods 2.4.12.18 Crank shaft 11.12.18 Thrust shaft 27.1.19 Tunnel shafts 23.1.19 Screw shaft 10.1.19 Propeller 10.1.19

Stern tube 5.12.18 Steam pipes tested 12.12.18 Engine and boiler seatings 27.2.19 Engines holding down bolts 2.4.19

Completion of pumping arrangements 28.5.19 Boilers fixed 2.4.19 Engines tried under steam 4.4.19 28.5.19

Completion of fitting sea connections 28.1.19 @ Lpk. Stern tube 28.1.19 @ Lpk. Screw shaft and propeller 28.1.19 @ Lpk. 2.6.19

Main boiler safety valves adjusted 4.4.19 Thickness of adjusting washers P 15 P 16 S 16 Centre 15 P 16 S 16 S B P 16 S 3

Material of Crank shaft Steel Identification Mark on Do. 70.5 1143 DXY Material of Thrust shaft Steel Identification Mark on Do. 687.229

Material of Tunnel shafts Iron Identification Marks on Do. 28.1.19 JE Material of Screw shafts Iron Identification Marks on Do. 10.1.19 JE

Material of Steam Pipes Iron Test pressure 540 lb

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 If so, state name of vessel Standard Z

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

The machinery of this vessel has been constructed under special survey in accordance with the Rules and approved plans and has been seen working satisfactorily under steam, materials and workmanship are good

The machinery is eligible in our opinion to be Classed + LMC 6-19 and to have the record fitted for oil fuel 6-19 FP above 150° F. - FD

It is submitted that this vessel is eligible for THE RECORD. + LMC 6-19. FI.

Fitted for Oil Fuel 6-19. F.P. above 150°F.

JWD. Ref. 19.6.19

The amount of Entry Fee ... £ 146.11.0 When applied for, 14.6.1919
Special ... £ : :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : : When received, 19.6.1919

Committee's Minute GLASGOW 17 JUL 1919

Assigned + LMC 6-19 7D.

Fitted for oil fuel 6-19 F.P. above 150°F.

as Easthope & Co. Ltd. Glasgow

Engineer Surveyor to Lloyd's Register of Shipping

TUE 1-JUL 1919

MAINTENANCE CERTIFICATE



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