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REPORT ON MACHINERY.

No. 77502

Received at London Office

WED. 6

Date of writing Report

1918

When handed in at Local Office

28 FEB 1918

Port of

o. in Survey held at

Northwich

Reg. Book.

Date, First Survey

May 10/17

Last Survey

26/8

1918

Support the

S.S. "Peronne"

(Number of Visits

20

Master J.A. Watkinson

Built at Northwich

By whom built

Messrs Yarwood & Sons

Tons { Gross 207
Net 132

When built 1918

Engines made at

Northwich

By whom made

Messrs Yarwood & Sons

when made

1918

Boilers made at

Do

By whom made

Do

when made

1918

Registered Horse Power

✓

Owners

R.J. Park

Port belonging to

London

Com. Horse Power as per Section 28

32

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

no

ENGINES, &c.—Description of Engines

Vertical Compound

No. of Cylinders

Two

No. of Cranks

Two

Dia. of Cylinders

13" 27"

Length of Stroke

18"

Revs. per minute

150

Dia. of Screw shaft

as per rule 5.95

Material of

Stub

the screw shaft fitted with a continuous liner the whole length of the stern tube

holiner

Is the after end of the liner made water tight

the propeller boss

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 17 1/4" (approx)

Dia. of Tunnel shaft

as per rule 5.47

Dia. of Crank shaft journals

as per rule 5.47

Dia. of Crank pin

5 1/2"

Size of Crank webs

3 1/4 x 6 1/4"

Dia. of thrust shaft under

bolters

5 1/2"

Dia. of screw

6-8"

Pitch of Screw

8-0"

No. of Blades

4

State whether movable

Yes

Total surface

16 1/2"

No. of Feed pumps

one

Diameter of ditto

2"

Stroke

9"

Can one be overhauled while the other is at work

✓

No. of Bilge pumps

one

Diameter of ditto

2"

Stroke

9"

Can one be overhauled while the other is at work

✓

No. of Donkey Engines

one

Sizes of Pumps

5 1/2 x 3 1/2 x 5" Duplex

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

In Engine Room

Two 2" suction

In Holds, &c. Two 2" suction in hold

No. of Bilge Injections

one

sizes

2 1/2"

Connected to condenser or to circulating pump

Yes

Is a separate Donkey Suction fitted in Engine room & size

Yes 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

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

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

That 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

the Screw Shaft Tunnel watertight

✓

Is it fitted with a watertight door

✓

worked from

✓

BOILERS, &c.—(Letter for record

S)

Manufacturers of Steel

Beardmore & D. Colville

Total Heating Surface of Boilers

5690

Is Forced Draft fitted

no

No. and Description of Boilers

one Cylindrical Multit.

Working Pressure

125 lb

Tested by hydraulic pressure to

250 lb

Date of test

29.8.17

No. of Certificate

2030

Can each boiler be worked separately

✓

Area of fire grate in each boiler

28 sq'

No. and Description of Safety Valves to

each boiler

Two Spring loaded

Dia. of each valve

3"

Pressure to which they are adjusted

130 lb

Are they fitted with easing gear

Yes

smallest distance between boilers or uptakes and bunkers or woodwork

8"

Mean dia. of boilers

9'0"

Length

9'0"

Material of shell plates

Stub

Thickness

11/16"

Range of tensile strength

28-32 tons

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

Overlap

ing. seams

J.R. Double

butts

Diameter of rivet holes in long. seams

15/16"

Pitch of rivets

5"

Lap of plates or width of butt straps

1-3 1/4"

per centages of strength of longitudinal joint

ribs

12%

Working pressure of shell by rules

149 lb

Size of manhole in shell

16 x 12"

size of compensating ring

machined

No. and Description of Furnaces in each boiler

Two plain

Material

Steel

Outside diameter

2'11 1/4"

length of plain part

top

5'5"

Thickness of plates

bottom

3 7/8"

Description of longitudinal joint

weld

No. of strengthening rings

one partial

Working pressure of furnace by the rules

171 lb

Combustion chamber plates: Material

Stub

Thickness: Sides

9/16"

Back

9/16"

Top

5/8"

Bottom

5/8"

Pitch of stays to ditto: Side

8 1/2 x 8 3/4"

Back

9 x 9"

Top

11 1/2 x 8 1/2"

stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

135 lb

Material of stay

Steel

Area at smallest part

150"

Area supported by each stay

810"

Working pressure by rules

148 lb

End plates in steam space:

Material

Steel

Thickness

13/16"

Pitch of stays

17 x 12"

How are stays secured

nuts & washers

Working pressure by rules

170 lb

Material of stays

Stub

Area at smallest part

373"

Area supported by each stay

228"

Working pressure by rules

170 lb

Material of Front plates at bottom

Stub

Thickness

13/16"

Material of Lower back plate

Steel

Thickness

13"

Greatest pitch of stays

as per plan

Working pressure of plate by rules

135 lb

Diameter of tubes

3 1/4"

Pitch of tubes

4 1/4 x 4 1/4"

Material of tube plates

Stub

Thickness: Front

13/16"

Back

11/16"

Mean pitch of stays

10 7/8"

Pitch across wide water spaces

16"

Working pressures by rules

150 lb

Girders to Chamber tops: Material

Stub

Depth and

thickness of girder at centre

7 x 2 1/4"

Length as per rule

2'3 1/2"

IS A DONKEY BOILER FITTED?

no

If so, is a report now forwarded?

SPARE GEAR.

State the articles supplied:

Two top & two bottom end bolts & nuts, set of coupling bolts, set of feed & bilge pump valves, 2 main bearing bolts, assorted bolts & nuts & iron of various sizes.

The foregoing is a correct description,

W. J. YARWOOD & SONS, LTD.

advent farwood

Manufacturer.

Dates of Survey while building

During progress of work in shops - -
During erection on board vessel - - -
Total No. of visits

1917 May 10. 18. June 1. 29. July 26. Aug 1. 9. 27. 29. Sept 12. Oct 1. 10. 23. Nov 1.
1918 20. 29. Dec 17. Jan 1. 29. Feb 8.
R.O.

Is the approved plan of main boiler forwarded herewith

Yes

" " " donkey " " "

Dates of Examination of principal parts

Cylinders 10/5/17 Slides 10/5/17 Covers 10/5/17 Pistons 12/5/17 Rods 18/5/17

Connecting rods 18/5/17 Crank shaft 16/6/17 Thrust shaft 16/6/17 Tunnel shafts 18/5/17 Screw shaft 18/5/17 Propeller 29/6/17

Stern tube 10/5/17 Steam pipes tested 20/10/17 (Hall) Engine and boiler seatings 10/5/17 Engines holding down bolts 12/9/17

Completion of pumping arrangements 11/6/17 Boilers fixed 10/10/17 Engines tried under steam 29/1/18

Completion of fitting sea connections 29/6/17 Stern tube 29/6/17 Screw shaft and propeller 29/6/17

Main boiler safety valves adjusted 29/1/18 Thickness of adjusting washers P 19/32 S 24/32

Material of Crank shaft Steel Identification Mark on Do. Material of Thrust shaft Steel Identification Mark on Do.

Material of Tunnel shafts Identification Marks on Do. Material of Screw shafts Steel Identification Marks on Do.

Material of Steam Pipes Copper, solid drawing Test pressure 250 lb 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 no If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.) The Machinery of this vessel was partly constructed before it was arranged to class the vessel. It has been examined during erection, & on completion, examined under steam & found satisfactory.

(In reply of shafting etc, see Lon letter 24/5/17 herewith, also letter from Owners 24/5/17).

The vessel is in our opinion eligible for record of LMC 2.18.

It is submitted that this vessel is eligible for THE RECORD. LMC 2.18.

6.3.18.

J. P. R.

The amount of Entry Fee ... £ 1.0.0
Special ... £ 8.0.0
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ 5.2.0

When applied for.

1 MAR 1918

When received.

2.4.18

Committee's Minute

Assigned

LIVERPOOL

5 MAR 1918

L 16 6 2: 18

Jm

Engineer Surveyor to Lloyd's Register of Shipping.



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