

Rpt. 4.

ROLLERS.  
REPORT ON MACHINERY.

No. 37968.

No. 33772

Date of writing Report

19

When handed in at Local Office

13/4

19 22

Received at London Office

No. in Survey held at

Hull

Reg. Book.

on the Steel S.S.K.

HUMPHREY

Date, First Survey

21.1.22

Last Survey

12-10-1922

Master

Built at Lumsberry

By whom built

I.T. Abdula &amp; Mitchell &amp; Co

Tons Gross

206

Engines made at Brimscombe

By whom made

I.T. Abdula &amp; Mitchell &amp; Co

Tons Net

49

Boilers made at

By whom made

I.T. Abdula &amp; Mitchell &amp; Co

When built

1918

Registered Horse Power

57

when made

1918

Nom. Horse Power as per Section 28

75

Owners

J &amp; J Ross &amp; Co

when made

1918

Port belonging to

Hull

ENGINES, &amp;c.—Description of Engines

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

Dia. of Cylinders

12 x 20 x 34

Length of Stroke

23

Revs. per minute

114

Dia. of Screw shaft

No. of Cranks

then

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

Yes

Dia. of Screw shaft

No. of Cranks

then

in the propeller boss

Yes

If the liner is in more than one length are the joints burned

Yes

Is the after end of the liner made water tight

Material of

screw shaft

between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

Yes

If the liner does not fit tightly at the part

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

Yes

Length of stern bush

2.4

Dia. of Tunnel shaft

as per rule

6.12

Dia. of Crank shaft journals

as per rule

6.47

Dia. of Crank pin

6.45

Size of Crank webs

4.4 x 12.4

Dia. of thrust shaft under

collars

6.75

Dia. of screw

8.4

Pitch of Screw

as fitted

6.75

No. of Feed pumps

one

Diameter of ditto

22

Stroke

12

Can one be overhauled while the other is at work

Yes

No. of Bilge pumps

one

Diameter of ditto

22

Stroke

12

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines

one

Diameter of ditto

22

Stroke

12

Can one be overhauled while the other is at work

Yes

In Engine Room

Two

2" dia

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

In Holds, &amp;c.

Four

2" dia

No. of Bilge Injections

one

Size

3"

Connected to condenser, or to circulating pump

C.P.

Is a separate Donkey Suction fitted in Engine room &amp; 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 they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates

Yes

Are they Valves or Cocks

Valves &amp; Cocks

Are the Discharge Pipes above or below the deep water line

above

Are the Blow Off Cocks fitted with a spigot and brass covering plate

Yes

What pipes are carried through the bunkers

For

suctions

How are they protected

Worn casings

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

BOILERS, &amp;c.—(Letter for record)

Is it fitted with a watertight door

worked from

Total Heating Surface of Boilers

1347

Is Forced Draft fitted

no

No. and Description of Boilers

one S.B

Working Pressure

180

Tested by hydraulic pressure to

360

Date of test

8-5-18

No. of Certificate

14267

Can each boiler be worked separately

Boiler

Area of each valve

Area of each valve

Pressure to which they are adjusted

Mean dia. of boiler

No. and Description of Safety Valves to

Are they fitted with easing gear

Material of shell plates

Smallest distance between boilers or uptakes and bunkers or woodwork

Thickens

Range of tensile strength

Diameter of rivet holes in long. seams

Pitch of rivets

Working pressure of shell by rules

No. and Description of Furnaces in each boiler

Description of longitudinal joint

Material

Thickness: Sides

Back

Top

Bottom

Working pressure by rules

End plates in steam space:

long. seams

Per centages of strength of longitudinal joint

rivets

Size of compensating ring

plate

Length of plain part

top

bottom

Thickness of plates

crown

bottom

Description of longitudinal joint

Material

Thickness: Sides

Back

Top

Bottom

Working pressure by rules

End plates in steam space:

Pitch of stays to ditto: Sides

Material of stays

Area at smallest part

Thickness

Pitch of stays

Area supported by each stay

How are stays secured

Working pressure by rules

Working pressure by rules

Material of Front plates at bottom

Working pressure of plate by rules

Mean pitch of stays

Girders to Chamber tops: Material

Depth and

Number and pitch of stays in each

% of strength of joint

Diam. of rivet holes

How stayed

Size of compensating ring

plate

Length of plain part

top

bottom

Thickness of plates

crown

bottom

Description of longitudinal joint

Material

Thickness: Sides

Back

Top

Bottom

Working pressure by rules

End plates in steam space:

Working pressure of furnace by the rules

Pitch of stays to ditto: Sides

Material of stays

Area at smallest part

Thickness

Pitch of stays

Area supported by each stay

How are stays secured

Working pressure by rules

Working pressure by rules

Material of Front plates at bottom

Working pressure of plate by rules

Mean pitch of stays

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How stayed

Working pressure of furnace by the rules

Pitch of stays to ditto: Sides

Material of stays

Area at smallest part

Thickness

Pitch of stays

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Thickness

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Area supported by each stay

How are stays secured

Working pressure by rules

Working pressure by rules



IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

Two top end bolts & nuts two bottom end bolts & nuts two main bearing bolts & nuts one set coupling bolts & nuts 6 tube stoppers one tube expander Two each feed & bilge pump valves & seats Main & donkey check valves one set of valves for general service donkey an assortment of bolts & nuts & nuts of various sizes

The foregoing is a correct description,

Manufacturer.

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

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 21/8/22 Slides 21/8/22 Covers 21/8/22 Pistons 21/8/22 Rods 21/8/22

Connecting rods 21/8/22 Crank shaft 21/8/22 Thrust shaft 21/8/22 Tunnel shafts - Screw shaft 28/8/22 Propeller 28/8/22

Stern tube 28/8/22 Steam pipes tested 4/9/22 Engine and boiler seatings 21/8/22 Engines holding down bolts 21/8/22

Completion of pumping arrangements 24/8/22 Boilers fixed - Engines tried under steam 5/9/22

Completion of fitting sea connections 28/8/22 Stern tube 28/8/22 Screw shaft and propeller 28/8/22

Main boiler safety valves adjusted 5/9/22 Thickness of adjusting washers P  $\frac{9}{32}$  S  $\frac{7}{8}$

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

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

Material of Steam Pipes Copper solid drawn Test pressure 400 lb.

Is an installation fitted for burning oil fuel - 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 JOHN FISPER NOW NAMED JOULE

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

The machinery of this vessel was built to the British Corporation Survey & the Rules to Lloyd's Survey.

The present Owners, Messrs J & F Hall & Co Hull, requested that the machinery be surveyed with the view of being classed with Lloyd's Register of Shipping.

So far as could be ascertained from this examination the material & workmanship are good. The machinery as far as can be seen is properly fitted & secure & the safety valves adjusted under steam to a W.P. of 180 lbs.

In my opinion the vessel is eligible for the second of L.M.C. 7-22.

The amount of Entry Fee ... £ : : When applied for, 19  
Special ... £ : :  
Donkey Boiler Fee ... £ : :  
Travelling Expenses (if any) £ : : When received, 19

G. W. Wells

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 27 OCT. 1922

Assigned



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