

REPORT ON MACHINERY.

No. 24990

Received at London Office

WED. MAY 15. 1912

Date of writing Report

19

When handed in at Local Office

11.5-12 Port of Hull.

Date, First Survey Dec 4

Last Survey May 1

1912

(Number of Visits 24)

No. in Survey held at

Hull.

Reg. Book.

3 sup. on the

S/S. K. "HONDO"

Master

Built at

Sully.

By whom built

Cochrane & Sons.

When built

1912

Engines made at

Hull.

By whom made

Messrs. Charles D. Thomas & Co. Ltd.

when made

1912

Boilers made at

By whom made

when made

1912

Registered Horse Power

Owners

H. L. Taylor.

Port belonging to

Grimsby.

Com. Horse Power as per Section 28

64.

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

12"-21"-34"

Length of Stroke

24"

Revs. per minute

108

Dia. of Screw shaft

as per rule

6.998

Material of

screw shaft

S.

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

Yes.

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

If two

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

Length of stern bush

2'-4"

Dia. of Tunnel shaft

as per rule

6.26

Dia. of Crank shaft journals

as per rule

6.544

Dia. of Crank pin

6.8"

Size of Crank webs

4.8"

Dia. of thrust shaft under

4.8"

Diameters

6.8"

Dia. of screw

8'-6"

Pitch of Screw

11'-3"

No. of Blades

H.

State whether moveable

No.

Total surface

24 1/2 sq ft

No. of Feed pumps

1

Diameter of ditto

2 1/2"

Stroke

14 1/2"

Can one be overhauled while the other is at work

No. of Bilge pumps

1

Diameter of ditto

3"

Stroke

14 1/2"

Can one be overhauled while the other is at work

No. of Donkey Engines

1

Sizes of Pumps

6" x 3 1/2" x 6"

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

Engine Room

Two 2". One forward & one aft.

In Holds, &c.

Two 2" diam. One 10" main hold &

one 10" fore hold. 6" fuel oil suction from all bunks with discharge on deck.

No. of Bilge Injections

1

sizes

3 1/2"

Connected to condenser, or to circulating pump

pump

Is a separate Donkey Suction fitted in Engine room & size

Yes 2 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

0

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.

What pipes are carried through the bunkers

Fuel oil suction

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

20.2.12

of Stern Tube

20.2.12

Screw shaft and Propeller

20.2.12

Is the Screw Shaft Tunnel watertight

0

Is it fitted with a watertight door

worked from

MILERS, &c.—(Letter for record S.) Manufacturers of Steel

Total Heating Surface of Boilers

1020 sq ft

Is Forced Draft fitted

No.

No. and Description of Boilers

One eff. hull single ended.

Working Pressure

180 lbs.

Tested by hydraulic pressure to

360 lbs.

Date of test

24.3.12

No. of Certificate

1889.

Can each boiler be worked separately

Yes.

Area of fire grate in each boiler

32 sq ft

No. and Description of Safety Valves to

each boiler

Two spring.

Area of each valve

3.94 sq ft

Pressure to which they are adjusted

185 lbs.

Are they fitted with easing gear

Yes.

Smallest distance between boilers or uptakes and bunkers or woodwork

9"

Mean dia. of boilers

12'-0"

Length

10'-0"

Material of shell plates

S.

Thickness

3/32"

Range of tensile strength

29 tons

Are the shell plates welded or flanged

No.

Descrip. of riveting: cir. seams

2. D.

Long. seams

D. B. S. T. R.

Diameter of rivet holes in long. seams

1 1/16"

Pitch of rivets

4 1/2"

Lap of plates or width of butt straps

15"

Percentage of strength of longitudinal joint

rivets 84.5%

Working pressure of shell by rules

185 lbs.

Size of manhole in shell

16" x 12"

Size of compensating ring

4" x 31"

No. and Description of Furnaces in each boiler

Two plain.

Material

S.

Outside diameter

42"

Length of plain part

top 6'-3 1/2"

bottom 6'-1"

Thickness of plates

crown 4.9"

bottom 6.4"

Description of longitudinal joint

Welded.

No. of strengthening rings

23

Working pressure of furnace by the rules

183 lbs.

Combustion chamber plates: Material

S.

Thickness: Sides

3/32"

Back

1/16"

Top

1/16"

Bottom

3/32"

Working pressure by rules

184 lbs.

Pitch of stays to ditto: Sides

9" x 9 1/2"

Back

9 1/2" x 9 1/2"

Top

9 1/2" x 8"

If stays are fitted with nuts or riveted heads

Yes.

Working pressure by rules

192 lbs.

End plates in steam space:

Material of stays

S.

Diameter at smallest part

1 1/8"

Area supported by each stay

12.5 sq in.

Working pressure by rules

185 lbs.

Material of stays

S.

Thickness

1"

Pitch of stays

16" x 16"

How are stays secured

D. B. S. T. R.

Working pressure by rules

185 lbs.

Material of Front plates at bottom

S.

Diameter at smallest part

5'-2 1/4"

Area supported by each stay

256 sq in.

Working pressure by rules

215 lbs.

Material of plate by rules

190 lbs.

Thickness

3/8"

Material of Lower back plate

S.

Thickness

3/32"

Greatest pitch of stays

14 1/2" x 9 1/2"

Working pressure of plate by rules

190 lbs.

Diameter of tubes

3 1/2"

Pitch of tubes

5" x 5"

Material of tube plates

S.

Thickness: Front

3/8"

Back

3/8"

Mean pitch of stays

10"

Pitch across wide water spaces

15"

Working pressures by rules

249 lbs.

Girders to Chamber tops: Material

S.

Depth and

thickness of girder at centre

8" x 1 1/2"

Length as per rule

2'-8 1/2"

Distance apart

8"

Number and pitch of stays in each

2'-9 1/2"

Working pressure by rules

199 lbs.

Superheater or Steam chest; how connected to boiler

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

W1470-0097

VERTICAL DONKEY BOILER— Manufacturers of Steel

No.	Description				
Made at	By whom made	When made	Where fixed		
Working pressure	tested by hydraulic pressure to	Date of test	No. of Certificate	Fire grate area	Description of Safety
Valves	No. of Safety Valves	Area of each	Pressure to which they are adjusted	Date of adjustment	
If fitted with casing gear	If steam from main boilers can enter the donkey boiler	Dia. of donkey boiler	Length		
Material of shell plates	Thickness	Range of tensile strength	Descrip. of riveting long. seams		
Dia. of rivet holes	Whether punched or drilled	Pitch of rivets	Lap of plating	Per centage of strength of joint	Rivets Plates
Working pressure of shell by rules	Thickness of shell crown plates	Radius of do.	No. of stays to do.	Dia. of stays	
Diameter of furnace Top	Bottom	Length of furnace	Thickness of furnace plates	Description of joint	
Working pressure of furnace by rules	Thickness of furnace crown plates	Radius of do.	Stayed by		
Diameter of uptake	Thickness of uptake plates	Thickness of water tubes	Dates of survey		

SPARE GEAR. State the articles supplied:— Two each top & bottom end connecting rod bolts & nuts, one set of coupling bolts & nuts, one set each feed & bilge pump valves, iron of various sizes, a quantity of assorted bolts & nuts, etc.

? 2 Main bearing bolts.

The foregoing is a correct description,
P. PROCTOR & CO. LTD.
 S. Arthur & Sons Manufacturer.

Dates of Survey while building
 During progress of work in shops -- 1911: Dec 4, 1912: Jan 5, 9, 12, 23, Feb 1, 2, 13, 15, 20, 21, 23, 27, Mar 4, 6, 12, 14, 19, 26, 27, Apr 1, 3, 10, 12, 20, 22, 24, 26, 29, May 1.
 Total No. of visits 29

Is the approved plan of main boiler forwarded herewith **yes**

Dates of Examination of principal parts—Cylinders 24.3.12 Slides 17.4.12 Covers 12.4.12 Pistons 12.4.12 Rods 12.4.12
 Connecting rods 12.4.12 Crank shaft 1.4.12 Thrust shaft 13.2.12 Tunnel shafts — Screw shaft 15.2.12 Propeller 9.1.12
 Stern tube 15.2.12 Steam pipes tested 26.4.12 Engine and boiler seatings 20.2.12 Engines holding down bolts 22.4.12
 Completion of pumping arrangements 1.5.12 Boilers fixed 29.4.12 Engines tried under steam 29.4.12
 Main boiler safety valves adjusted 29.4.12 Thickness of adjusting washers **Forward 3/8" G.M. 3/8"**
 Material of Crank shaft S. Identification Mark on Do. N° 883 T.G.D. Material of Thrust shaft S. Identification Mark on Do. N° 883 T.G.D.
 Material of Tunnel shafts — Identification Marks on Do. — Material of Screw shafts I. Identification Marks on Do. N° 883 T.G.D.
 Material of Steam Pipes **Solid drawn copper** Test pressure **360 lbs. pressure per sq. inch**

General Remarks (State quality of workmanship, opinions as to class, &c. The engines & boilers of this vessel have been constructed under special survey in accordance with the Rules. The materials & workmanship are sound & good. The boiler tested by hydraulic pressure, & with the engines secured on board & tested under steam they are now in good order & safe working condition & respectfully submitted as being eligible in my opinion to be classed with the notation of **L.M.C. 5-12** in the Register Book.

It is submitted that
 this vessel is eligible for
THE RECORD + LMC 5.12.

J.W.D.
 15/5/12

The amount of Entry Fee .. £ 1 : 0 :
 Special .. £ 9 : 12 :
 Donkey Boiler Fee .. £ : :
 Travelling Expenses (if any) £ : 8/2 :
 When applied for, 14.5.12
 When received, 31.5.12

Committee's Minute **FRI. MAY 17, 1912**

Assigned

June 5. 12

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



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 Foundation