

## REPORT ON MACHINERY.

No. 17567

Port of Hull

IUES. 20 FEB 1906

Received at London Office

No. in Survey held at  
Reg. Book.

Hull

Date, first Survey May 19/05 Last Survey 17<sup>th</sup> Feb 1906

(Number of Visits 41)

4656 on the

Steel S. K. Hamlet

Master

Built at

Hull

By whom built

Messrs Earles &amp; Co Ltd

Tons

Gross 311

Net 119

When built 1906.

Engines made at

By whom made

Messrs

when made

Boilers made at

Hull

By whom made

Amos &amp; Smith

when made

1906

Registered Horse Power

Owners

Hollings' Sm Fishing Co Ltd Port belonging to Hull

Nom. Horse Power as per Section 28

96

Is Refrigerating Machinery fitted

No

Is Electric Light fitted

No

## ENGINES, &amp;c.—Description of Engines

Triple Expansion

No. of Cylinders

3

No. of Cranks

3

Dia. of Cylinders 14" ~ 23" ~ 38"

Length of Stroke 27"

Revs. per minute 115

Dia. of Screw shaft

as per rule 7.91

Material of Iron

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

in the propeller boss Yes If the liner is in more than one length are the joints burned 1 length 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

Yes

Length of stern bush 40"

Dia. of Tunnel shaft

as per rule 7.18

Dia. of Crank shaft journals

as per rule 7.54

Dia. of Crank pin

8"

Size of Crank webs 12 1/2 x 5

Dia. of thrust shaft under

collars 8"

Dia. of screw 9" ~ 9"

Pitch of screw 11" ~ 6" 6" 12" ~ 6"

No. of blades 4

State whether moveable

No

Total surface

30.6 sq ft

No. of Feed pumps

2

Diameter of ditto 2 7/8"

Stroke 18"

Can one be overhauled while the other is at work Yes

No. of Bilge pumps

2

Diameter of ditto 2 7/8"

Stroke 18"

Can one be overhauled while the other is at work Yes

No. of Donkey Engines

One

Sizes of Pumps 6 1/2" x 6" x 6"

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

In Engine Room

Two 2"

In Holds, &amp;c. 1-2" to fish hold, 1-2" to fore peak

Ejector suction from eng. room bilge holds, with discharge on deck

No. of bilge injections

1

sizes 4"

Connected to condenser, or to circulating pump

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 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

hold 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

When were stern tube, propeller, screw shaft, and all connections examined in dry dock

before launching

Is the screw shaft tunnel watertight

None.

Is it fitted with a watertight door

worked from

## BOILERS, &amp;c.—

(Letter for record 3)

Total Heating Surface of Boilers

1665 sq ft

Is forced draft fitted

No

No. and Description of Boilers

One cyl. Multi

Working Pressure

185 lbs

Tested by hydraulic pressure to 370 lbs

Date of test 12.12.05 Can each boiler be worked separately

Area of fire grate in each boiler

55 sq ft

No. and Description of safety valves to

each boiler Two Spring

Area of each valve

5.94 sq ft

Pressure to which they are adjusted

190 lbs

Are they fitted with easing gear

Yes

Smallest distance between boilers or uptakes and bunkers or woodwork

5 1/2"

Mean dia. of boilers

14' 0"

Length 10' 7 1/2"

Material of shell plates

Steel

Thickness 1 5/32"

Range of tensile strength

28-32 tons

Are they welded or flanged

Descrip. of riveting: cir. seams

L. D.

long. seams

D. B. S. S. R.

Diameter of rivet holes in long. seams

1 9/32"

Pitch of rivets

8.72"

Lap of plates or width of butt straps

18 3/4"

Per centages of strength of longitudinal joint

rivets 95.1

plate 85.3

Working pressure of shell by rules

185 lbs

Size of manhole in shell

16" x 12"

Size of compensating ring

40" x 30" x 1 5/32"

No. and Description of Furnaces in each boiler

3 plain

Material Steel Outside diameter

41 10/16"

Length of plain part

top 5' 10 7/8"

bottom 5' 10 7/8"

Thickness of plates

crown 4 9/16"

bottom 6 1/4"

Description of longitudinal joint

Welded

No. of strengthening rings

0

Working pressure of furnace by the rules

191 lbs

Combustion chamber plates: Material

Steel

Thickness: Sides

7/16"

Back

7/16"

Pitch of stays to ditto: Sides

8 3/4" x 7 1/2"

Back

8" x 8 1/4"

Top

7 1/2" x 7 1/2"

If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules

247 lbs

Material of stays

Steel

Diameter at smallest part

1 1/2"

Area supported by each stay

55.21 sq ft

Working pressure by rules

214 lbs

End plates in steam space:

Material Steel Thickness

1 7/16"

Pitch of stays

18" x 15 1/2"

How are stays secured

screwed into end plates

Working pressure by rules

191 lbs

Material of stays

Steel

Diameter at smallest part

6.10 sq ft

Area supported by each stay

279 sq ft

Working pressure by rules

218 lbs

Material of Front plates at bottom

Steel

Thickness

1 5/16"

Material of Lower back plate

Steel

Thickness

1 5/16"

Greatest pitch of stays

14"

Working pressure of plate by rules

230 lbs

Diameter of tubes

3 1/4"

Pitch of tubes

4 1/2" x 4 3/4"

Material of tube plates

Steel

Thickness: Front

15/16"

Back

27/32"

Pitch across wide water spaces

14"

Working pressures by rules

195 lbs

Girders to Chamber tops: Material

Iron

Depth and

thickness of girder at centre

9 1/2" x 13 1/4"

Length as per rule

2'-10"

Working pressure by rules

200 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

Yes

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

Yes

W703-0023

Lloyd's Register



## DONKEY BOILER—

No.

Description

Made at

By whom made

When made

Where fixed

Working pressure

tested by hydraulic pressure to

No. of Certificate

Fire grate area

Description of safety valves

No. of safety valves

Area of each

Pressure to which they are adjusted

If fitted with easing 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

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

Thickness of furnace crown plates

Stayed by

Working pressure of shell by rules

Working pressure of furnace by rules

Diameter of uptake

Thickness of uptake plates

Thickness of water tubes

SPARE GEAR. State the articles supplied:— Two each top and bottom end connecting rod bolts and nuts, two main bearing bolts and nuts, one set coupling bolts and nuts, one set each air, circulating, feed and bilge pump valves, and a quantity of assorted bolts nuts etc.

The foregoing is a correct description,

Manufacturer.

FOR AMOS &amp; SMITH

W. F. Hyde

MANAGER

p. 37 R.

Dates { During progress of work in shops - 1905: May 19 June 7. 16. 29 July 5. 7. 13. 24. Aug 16. 21. 24. Sep 4. 11. 25. Oct 2. 9. 18. 23. 30. Nov 6. 15.  
of Survey { During erection on board vessel - Nov 20. 27. Dec 4. 8. 12. 21. 29. 1906: Jan 4. 10. 15. 23. 24. 27. 29. Feb 1. 5. 7. 8. 14. 17.  
while building { Total No. of visits 41

Is the approved plan of main boiler forwarded herewith

No. it was  
sent on with  
Hull Report  
No. 17566

## General Remarks

(State quality of workmanship, opinions as to class, &amp;c.)

The machinery and boiler of this vessel, have been inspected throughout construction in accordance with the Society's Rules. The materials & workmanship are good. The boiler tested by hydraulic pressure, and with the engines placed on board and tested under steam, they are now in good order and safe working condition and respectfully submitted as being eligible in my opinion to be classed with the notation of  $\frac{1}{2}$  L.M.C. 2.06 in the Register Book.

This machinery and boiler are similar to that on the "Cleopatra" Hull Report No. 17566.

It is submitted that  
this vessel is eligible for  
THE RECORD

L.M.C. 2.06

ms  
20.2.06  
R.S.  
20.2.06

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Committee's Minute

FRI. 23 FEB 1906

Assigned

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Machinery Certificate  
Written.

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Foundation