

# REPORT ON MACHINERY.

No. 17006

Port of *Hull*

Received at London Office *JUL 25 JUL 1905*

*Hull* Date, first Survey *Apr 11* Last Survey *July 14* 1905

*new Trawler "Bute"* (Number of Visits *19*) Tons { Gross *176* Net *60*

Built at *Hull* By whom built *Charles S.B. & Co. Ld.* When built *1905*

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Owners *Hull Steam Fishing & Ice Co. Ld.* Port belonging to *Hull*

Section 28 *45.6* Is Refrigerating Machinery fitted for cargo purposes *No* Is Electric Light fitted *No*

Description of Engines *Triple* No. of Cylinders *3* No. of Cranks *3*

*17, 28"* Length of Stroke *22"* Revs. per minute *112* Dia. of Screw shaft *6.6"* Material of *Iron*

with a continuous liner the whole length of the stern tube *yes* Is the after end of the liner made water tight

*yes* If the liner is in more than one length are the joints burned *✓* If the liner does not fit tightly at the part

the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive *✓* If two

shaft lapped or protected between the liners *✓* Length of stern bush *2.8 1/2"*

*5.57"* Dia. of Crank shaft journals *5.8"* Dia. of Crank pin *6 1/4"* Size of Crank webs *12 1/2 x 3 1/2"* Dia. of thrust shaft under

crew *8-9"* Pitch of screw *8-0 root, 9-6 tip* No. of blades *4* State whether moveable *No* Total surface *24 sq. ft.*

Diameter of ditto *2 1/2"* Stroke *11"* Can one be overhauled while the other is at work *✓*

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*2* Sizes of Pumps *6x3x6" 5x5x5"* No. and size of Suctions connected to both Bilge and Donkey pumps

*2" dia.* In Holds, &c. *One 2" dia.*

*one from bng. bilge, hold, & ballast tanks, & discharge on deck.*

sizes *3 1/2"* Connected to condenser, or to circulating pump *Cond.* Is a separate donkey suction fitted in Engine room & size *3" injector*

is fitted with roses *yes* Are the roses in Engine room always accessible *yes* Are the sluices on Engine room bulkheads always accessible *✓*

the sea direct on the skin of the ship *yes* Are they Valves or Cocks *Both*

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*

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*

through the bunkers *None* How are they protected *✓*

s, and pumps in connection with the machinery and all boiler mountings accessible at all times *yes*

es, cocks, and valves arranged so as to prevent any communication between the sea and the bilges *yes*

opeller, screw shaft, and all connections examined in dry dock *Before launch* Is the screw shaft tunnel watertight *None*

ight door *✓* worked from *✓*

(Letter for record *(5)* Total Heating Surface of Boilers *750 sq. ft.* Is forced draft fitted *No* *✓*

Boilers *One S.E. by L. Muller* Working Pressure *200 lbs* Tested by hydraulic pressure to *400 lbs*

in each boiler be worked separately *✓* Area of fire grate in each boiler *25 1/2 sq. ft.* No. and Description of safety valves to

ect spring Area of each valve *3.14"* Pressure to which they are adjusted *185 lbs* Are they fitted with easing gear *yes*

ilers or uptakes and bunkers or woodwork *7 1/2"* Mean dia. of boilers *10.6"* Length *9.3"* Material of shell plates *Steel*

tensile strength *28-32* Are they welded or flanged *✓* Descrip. of riveting: cir. seams *BR. Lap* long. seams *BR. S. Rivets*

long. seams *1 1/16"* Pitch of rivets *7 1/4"* Lap of plates *16"* width of butt straps *16"*

longitudinal joint *91.3* Working pressure of shell by rules *207 lbs* Size of manhole in shell *16" x 12"*

*5.4 x 2.6 x 1"* No. and Description of Furnaces in each boiler *Two plain* Material *Steel* Outside diameter *35.53"*

*5.6 1/2"* Thickness of plates *49"* Description of longitudinal joint *Welded* No. of strengthening rings *✓*

*5.2"* by the rules *229 lbs* Combustion chamber plates: Material *Steel* Thickness: Sides *1/16"* Back *5/8"* Top *5/8"* Bottom *1/16"*

des *8 1/4 x 7"* Back *7 1/8 x 7 1/8"* Top *8 1/4 x 7"* If stays are fitted with nuts or riveted heads *Nuts* Working pressure by rules *230 lbs*

Diameter at smallest part *1 3/8"* Area supported by each stay *50.7"* Working pressure by rules *233 lbs* End plates in steam space:

ess *15/16"* Pitch of stays *14 1/4 x 14"* How are stays secured *Nuts & Ws* Working pressure by rules *208 lbs* Material of stays *Steel*

*5.8"* Area supported by each stay *199.5"* Working pressure by rules *259 lbs* Material of Front plates at bottom *Steel*

of Lower back plate *Steel* Thickness *15/16"* Greatest pitch of stays *15 1/2 x 12 1/2"* Working pressure of plate by rules *210 lbs*



## 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 m

enter the donkey boiler

Dia. of donkey boiler

Length

Material of shell plates

Thickness

Ra

strength

Descrip. of riveting long. seams

Dia. of rivet holes

Whether punched or drilled

Pitch of

Lap of plating

Per centage of strength of joint

Rivets

Thickness of shell crown plates

Radius of do.

No. of Stays to

Dia. of stays.

Diameter of furnace Top

Bottom

Length of furnace

Thickness of furnace plates

ters (if any)

joint

Thickness of furnace crown plates

Stayed by

Working pressure of furnace by rules

Diameter of uptake

Thickness of uptake plates

Working pressure of shell by r

Number.

## SPARE GEAR. State the articles supplied:—

Two top-end & two bottom-end connecting rod bolts & nuts. Two main bearing bolts & nuts. One set of coupling bolts & nuts. One set of feed & bilge pump valves. Main & donkey feed check valves. Assorted bolts & nuts.

The foregoing is a correct description,

F. J. F. Thorpe

Manufacturer.

Dates of Survey while building

During progress of work in shops—

During erection on board vessel—

Total No. of visits—

SECRETARY

1905:— Apr 11. 15. 25. 28 May 3. 11. 18. 22. 25. 31 Jun 2. 7.

Jun 22. 27. 28 July 1.

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

## General Remarks

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

The Engines and Boiler of this vessel have been constructed under Special Survey, are of good material and workmanship, and have been found and secured on board in accordance with the rules. They are now in good working condition and in my opinion eligible to have the notation + LMC 7.05 in the Register Book.

It is submitted that

this vessel is eligible for

+ LMC 7.05

CM.

25.7.05

H.L.

25.7.05

The amount of Entry Fee..

£

Special

£

Donkey Boiler Fee

£

Travelling Expenses (if any) £

£

When applied for,

20/7/1905

When received,

27/9/05

Engine Surveyor to Lloyd's Register of British &amp; Foreign Ships

Committee's Minute

FRI. 28 JUL 1906

Assigned

+ LMC 7.05

MACHINERY CERTIFICATE  
WRITTEN.

(LLO)

VESSELS OF

particulars are supplied by

Re

Number.

059

and Port of Previous Registry (if any)

British or Foreign

Whether a Sailing or Steam Ship how powered

Steam

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