

REPORT ON MACHINERY.

No. 16641

Port of Hull

Received at London Office

SAT. 11 MAR 1905

No. in Survey held at

Hull

Date, first Survey

Nov 7/04

Last Survey

Feb 28th 1905

Reg. Book.

(Number of Visits 36)89 Supp on theSc K. CalabriaTons Gross 220Net 92

Master

Built at Selby

By whom built

Messrs Cochrane SonsWhen built 1905

Engines made at

Hull

By whom made

Messrs Charles D. Holmes & Cowhen made 1905

Boilers made at

Hull

By whom made

Messrs Charles D. Holmes & Cowhen made 1905

Registered Horse Power

Owners

Grimby alliance Steam Fishing Co Port belonging to Grimby

Nom. Horse Power as per Section 28

69

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

No

ENGINES, &c.—Description of Engines

Tri compound

No. of Cylinders

3No. of Cranks 3Dia. of Cylinders 12 $\frac{1}{2}$ " - 21 $\frac{1}{2}$ " - 35"

Length of Stroke

24"

Revs. per minute

109

Dia. of Screw shaft

as per rule 7.09Material 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 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

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

Length of stern bush 31"

Dia. of Thrust shaft

as per rule 6.44

Dia. of Crank shaft journals

as per rule 6.72

Dia. of Crank pin

6 $\frac{7}{8}$ "Size of Crank webs 13 $\frac{1}{2}$ " x 4 $\frac{1}{2}$ "Dia. of thrust shaft under collars 6 $\frac{7}{8}$ "Dia. of screw 8" - 6"Pitch of screw 11" - 6" + 10" - 6"No. of blades 4State whether moveable NoTotal surface 28No. of Feed pumps OneDiameter of ditto 2 $\frac{1}{2}$ "Stroke 24"

Can one be overhauled while the other is at work

No. of Bilge pumps OneDiameter of ditto 2 $\frac{1}{2}$ "Stroke 24"

Can one be overhauled while the other is at work

No. of Donkey Engines OneSizes of Pumps 2 $\frac{3}{4}$ " x 5"

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

In Engine Room Two2"In Holds, &c. One2"

to slush well, and

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

No. of bilge injections 1sizes 3"Connected to condenser, or to circulating pump plumbIs a separate donkey suction fitted in Engine room & size Yes 2 $\frac{1}{2}$ "Are all the bilge suction pipes fitted with roses YesAre the roses in Engine room always accessible YesAre the sluices on Engine room bulkheads always accessible NoneAre all connections with the sea direct on the skin of the ship YesAre they Valves or Cocks bothAre they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates YesAre the discharge pipes above or below the deep water line aboveAre they each fitted with a discharge valve always accessible on the plating of the vessel YesAre the blow off cocks fitted with a spigot and brass covering plate yesWhat pipes are carried through the bunkers Hold SuctionHow are they protected Wood casingAre all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times YesAre the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges YesWhen were stern tube, propeller, screw shaft, and all connections examined in dry dock before launchingIs the screw shaft tunnel watertight None

Is it fitted with a watertight door

worked from

BOILERS, &c.—

(Letter for record 5)

Total Heating Surface of Boilers

1120Is forced draft fitted No

No. and Description of Boilers

One byl Multi

Working Pressure

180 lbsTested by hydraulic pressure to 260 lbsDate of test 11. 2. 05

Can each boiler be worked separately

Area of fire grate in each boiler

33

No. and Description of safety valves to

each boiler Two SpringArea of each valve 3.9Pressure to which they are adjusted 185 lbsAre they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork

6"Mean dia. of boilers 12" - 4"Length 10' - 0"Material of shell plates SteelThickness 1 $\frac{1}{2}$ "Range of tensile strength 29 32

Are they welded or flanged

Descrip. of riveting: cir. seams 2 D Rlong. seams D. B. S. Y. RDiameter of rivet holes in long. seams 1 $\frac{1}{2}$ "Pitch of rivets 7"Lap of plates or width of butt straps 15"

Per centages of strength of longitudinal joint

rivets 86.5plate 85.2Working pressure of shell by rules 188 lbsSize of manhole in shell 16" x 12"Size of compensating ring 7" x 1 $\frac{1}{2}$ "

No. and Description of Furnaces in each boiler

Two HolmesMaterial SteelOutside diameter 43"

Length of plain part

top 1 $\frac{1}{2}$ "

Thickness of plates

crown 1 $\frac{1}{2}$ "Description of longitudinal joint WeldedNo. of strengthening rings 4 HolmesCorrugationsWorking pressure of furnace by the rules 197 lbsCombustion chamber plates: Material SteelThickness: Sides 2 $\frac{3}{32}$ "Back 1 $\frac{1}{16}$ "Top 2 $\frac{3}{32}$ "Bottom 2 $\frac{3}{32}$ "Pitch of stays to ditto: Sides 9"Back 9" x 8 $\frac{3}{4}$ "Top 8 $\frac{1}{2}$ "If stays are fitted with nuts or riveted heads NutsWorking pressure by rules 207 lbsMaterial of stays SteelDiameter at smallest part 1 $\frac{5}{8}$ "Area supported by each stay 78.75Working pressure by rules 236 lbs

End plates in steam space:

Material SteelThickness 1 $\frac{1}{16}$ "Pitch of stays 16" x 16"How are stays secured D. nutsWorking pressure by rules 208 lbsMaterial of stays SteelDiameter at smallest part 2.7"Area supported by each stay 256Working pressure by rules 225 lbsMaterial of Front plates at bottom SteelThickness 2 $\frac{3}{32}$ "Material of Lower back plate SteelThickness 1 $\frac{5}{16}$ "Greatest pitch of stays 14 $\frac{3}{4}$ "Working pressure of plate by rules 180 lbsDiameter of tubes 3 $\frac{1}{4}$ "Pitch of tubes 4 $\frac{1}{2}$ " x 4 $\frac{5}{8}$ "Material of tube plates SteelThickness: Front 2 $\frac{3}{32}$ "Back 7 $\frac{7}{8}$ "Mean pitch of stays 9 $\frac{1}{2}$ "Pitch across wide water spaces 14 $\frac{1}{2}$ "Working pressures by rules 180 lbsGirders to Chamber tops: Material Iron

Depth and

thickness of girder at centre 8 $\frac{3}{4}$ " x 13 $\frac{1}{4}$ "Length as per rule 2' - 7"Distance apart 8"Number and pitch of Stays in each 3 - 8 $\frac{1}{2}$ "Working pressure by rules 216 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

If not, state whether, and when, one will be sent?

Is a Report also sent on the Hull of the Ship?

[2000-6,04-Copyright Ink.]

W736-0006

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

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 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 bilge pump valves, and a quantity of assorted bolts and nuts. etc

The foregoing is a correct description,

Charles S. Holmes Manufacturer.

Dates of Survey while building { During progress of work in shops - 1904: - Nov 7, 30. Dec. 1, 5, 9, 12-15, 16, 20, 21 1905 Jan 4, 5, 11, 12, 16, 18, 19, 20, 23, 25, 26. Feb. 1, 2, 3.
During erection on board vessel - Feb. 6, 7, 11, 13, 14, 15, 16, 17, 22, 23, 24, 28.
Total No. of visits 36

Is the approved plan of main boiler forwarded herewith Yes

" " " donkey " " "

General Remarks

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

The machinery and boiler of this vessel have been inspected throughout construction in accordance with the Society's Rules. The material and 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 notification of L.M.C. 2.05 in the Register Book.

It is submitted that
this vessel is eligible for
THE RECORD L.M.C. 2.05

11.3.05
11.3.05

The amount of Entry Fee. £ 1 : : : When applied for, 7/3/1905
Special £ 9 : 17 : :
Donkey Boiler Fee £ : : : : When received, 31/3/1905
Travelling Expenses (if any) £ : : 8 : 2

Committee's Minute

TUES. 14 MAR 1905

Assigned

L.M.C. 2.05

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



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Foundation