

REPORT ON MACHINERY.

No. 17160

Port of Hull

Received at London Office

MUN. 4 SEP 1905

No. in Survey held at Hull
Reg. Book.Date, first Survey Apr. 12thLast Survey 30th Aug 1905

(Number of Visits 34)

4 Supp. on the

Steel S. K. Romilly

Gross 214

Net 77

When built 1905

Master

Built at Selby

By whom built

Cochrane Sons

Engines made at Hull

By whom made

C. D. Holmes Coy

when made 1905

Boilers made at "

By whom made

C. D. Holmes Coy

when made 1905

Registered Horse Power

Owners

J. L. Green

Port belonging to

Grimsby

Nom. Horse Power as per Section 28

666.67

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

No

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 110

Dia. of Screw shaft

as per rule 6.99

Material of Steel

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

If two

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

Yes

Length of stern bush 30 1/2"

Dia. of Tunnel shaft

as per rule 6.26

6 3/4"

Dia. of Crank shaft journals

as per rule 6.58

6 7/8"

Dia. of Crank pin 6 3/8"

Size of Crank webs 13 1/2" x 4 3/8"

Dia. of thrust shaft under

collars 6 1/2"

Dia. of screw 8" - 6"

Pitch of screw 10" - 9"

No. of blades 4

State whether moveable

No

Total surface 27 1/2 sq ft

No. of Feed pumps 1

Diameter of ditto 2 1/2"

Stroke 24"

Can one be overhauled while the other is at work

Yes

No. of Bilge pumps 1

Diameter of ditto 2 1/2"

Stroke 24"

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines One

Sizes of Pumps 2 3/4" x 5"

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

In Engine Room Two 2"

In Holds, &c. One each 2" to each slush well, & hold, &c. suction from Eng. bilge hold. & slush well with discharge on deck

No. of bilge injections 1

sizes 3"

Connected to condenser, or to circulating pump

Is a separate donkey suction fitted in Engine room & size

Yes 2"

Are all the bilge suction pipes fitted with roses

Yes

Are the roses in Engine room 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

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

0

Is it fitted with a watertight door

worked from

BOILERS, &c.—

(Letter for record 8)

Total Heating Surface of Boilers

1096 sq ft

Is forced draft fitted

No

No. and Description of Boilers One cyl. Multitubular

Working Pressure 180 lbs

Tested by hydraulic pressure to 360 lbs

Date of test 27.7.05

Can each boiler be worked separately

Area of fire grate in each boiler 38.8 sq ft

No. and Description of safety valves to each boiler Two Spring

Area of each valve 3.98 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 4"

Mean dia. of boilers 12" - 6"

Length 10' - 0"

Thickness 1 1/2"

Range of tensile strength 29.32

Are they welded or flanged

Descrip. of riveting: cir. seams L. D.

long. seams D. D. S. S. R

Diameter of rivet holes in long. seams 1 1/2"

Pitch of rivets 7"

Lap of plates or width of butt straps 15"

Per centages of strength of longitudinal joint

rivets 86.5

plate 85.2

Working pressure of shell by rules 185 lbs

Size of manhole in shell 16" x 12"

Size of compensating ring 7" x 1 1/2"

Length of plain part top 5' - 10"

Thickness of plates crown 4 1/2"

bottom 6 1/4"

Description of longitudinal joint Welded

No. of strengthening rings 0

Working pressure of furnace by the rules 184 lbs

Combustion chamber plates: Material Steel

Thickness: Sides 23/32"

Back 11/16"

Top 23/32"

Bottom 23/32"

Pitch of stays to ditto: Sides 9"

Back 9" x 8 1/2"

Top 8 1/2" x 8 1/2"

Material of stays Steel

Diameter at smallest part 1 5/8"

Area supported by each stay 76.5 sq ft

Working pressure by rules 243 lbs

End plates in steam space: Material Steel

Thickness 1 3/32"

Pitch of stays 17 1/2" x 17 1/2"

How are stays secured

screwed into both end plates

Working pressure by rules 185 lbs

Material of stays Steel

Diameter at smallest part 2 1/16"

Area supported by each stay 306.25 sq ft

Working pressure by rules 202 lbs

Thickness 7/8"

Material of Lower back plate Steel

Thickness 1 5/16"

Greatest pitch of stays 15"

Working pressure of plate by rules 180 lbs

Diameter of tubes 3 1/4"

Pitch of tubes 4 5/8"

Material of tube plates Steel

Thickness: Front 7/8"

Back 7/8"

Mean pitch of stays 9 1/2"

Pitch across wide water spaces 15"

Working pressures by rules 180 lbs

Girders to Chamber tops: Material Iron

thickness of girder at centre 9" x 1 3/4"

Length as per rule 2' - 8"

Distance apart 8 3/4"

Number and pitch of Stays in each 3 - 8 1/2"

Working pressure by rules 193 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

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

The foregoing is a correct description,

Charles D. Holmes

Manufacturer.

Dates of Survey while building

During progress of work in shops—

During erection on board vessel—

Total No. of visits

1905:—Apr. 12. May 2. 9. 10. 16. 18. 23. 29. 31. June 2. 8. 15. 19. 20. 22. 23. 26. 27. July 4. 6. July 8. 12. 15. 17. 20. 21. 26. 27. Aug 14. 18. 19. 23. 26.

Is the approved plan of main boiler forwarded herewith

No. forward with full Rpt No. 17140

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 materials 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. 8.05* in the Register Book.

This is a sister vessel to the S.K. 'Byrnes' Hull Report No. 17140

It is submitted that this vessel is eligible for THE RECORD

L.M.C. 8.05.

Emd.

H.9.05

H.9.05

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Committee's Minute

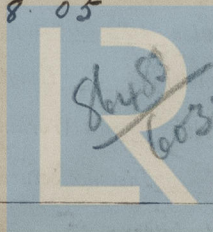
Assigned

TUES. 5 SEP 1905

+ L.M.C. 8.05

MACHINERY CERTIFICATE
WRITTEN

James Barclay
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.
30. 8. 05



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Foundation