

REPORT ON MACHINERY.

No. 16583

Port of Hull

Received at London Office WED. 8 FEB 1906

No. in Survey held at Hull

Date, first Survey Oct. 19th 04 Last Survey Jan 20th 1905

Reg. Book.

(Number of Visits 23)

41 Supp. on the Screw Trawler "Lucy"

Gross 280
Tons Net 96

Master

Built at Hull

By whom built

Charles T. B. & Co. Ltd

When built 1905

Engines made at Hull

By whom made

Charles T. B. & Co. Ltd

when made 1905

Boilers made at Hull

By whom made

do

when made 1905

Registered Horse Power

Owners

Fleetwood Steam Fishing Co. Ltd Port belonging to Fleetwood

Nom. Horse Power as per Section 28

78 1/2

Is Refrigerating Machinery fitted

No

Is Electric Light fitted

No

ENGINES, &c.—Description of Engines Triple

No. of Cylinders 3 No. of Cranks 3

Dia. of Cylinders 12 3/4, 22, 36 Length of Stroke 24 Revs. per minute 112

Dia. of Screw shaft as per rule 7 3/4 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

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 for protected between the liners

Length of stern bush 2' 9"

Dia. of Tunnel shaft as per rule 6 5/8 Dia. of Crank shaft journals as per rule 6 5/8

Dia. of Crank pin 7" Size of Crank webs 4 5/8 x 13 1/2 Dia. of thrust shaft under

collars 7 1/2 Dia. of screw 8' 9" Pitch of screw 11' 6"

No. of blades 4 State whether moccable No Total surface 26 sq. ft.

No. of Feed pumps One Diameter of ditto 2 3/4 Stroke 12"

Can one be overhauled while the other is at work

No. of Bilge pumps One Diameter of ditto 2 3/4 Stroke 12"

Can one be overhauled while the other is at work

No. of Donkey Engines One Sizes of Pumps 5 x 2 1/2 x 5" D.A.

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

In Engine Room One 2"

In Holds, &c. Two 2"

2 1/2" Ejector from engine bilge + holds + discharge on deck

No. of bilge injections 1 sizes 4" Connected to condenser, or to circulating pump Pump Is a separate donkey suction fitted in Engine room & size 2 1/2" Ejector

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

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 for bilge 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 20/1/05

Is the screw shaft tunnel watertight None

Is it fitted with a watertight door

worked from

BOILERS, &c.—

(Letter for record (S) Total Heating Surface of Boilers 1340 sq. ft. Is forced draft fitted No

No. and Description of Boilers One S.E. Cyl. Mult.

Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs

Date of test 18.1.05 Can each boiler be worked separately

Area of fire grate in each boiler 33 sq. ft. No. and Description of safety valves to

each boiler Two direct spring Area of each valve 3.9 sq. in.

Pressure to which they are adjusted 184 lbs Are they fitted with easing gear yes

Smallest distance between boilers or uptakes and bunkers or woodwork 12"

Mean dia. of boilers 12' 6" Length 10' 6" Material of shell plates Steel

Thickness 1 1/2" Range of tensile strength 28-32 Are they welded or flanged

Descrip. of riveting: cir. seams D.R. Lap long. seams B.S. 5 Rivets

Diameter of rivet holes in long. seams 1 1/8"

Pitch of rivets 7 1/8" Lap of plates or width of butt straps 15 1/2"

Per centages of strength of longitudinal joint

rivets 89.6

Working pressure of shell by rules 180 lbs Size of manhole in shell 16" x 12"

Size of compensating ring 2' 7" x 2' 4" x 1 1/2"

No. and Description of Furnaces in each boiler Two plain Material Steel Outside diameter 3' 5 3/4"

Length of plain part top 6' 6" bottom 5' 11 1/2"

Thickness of plates crown 4 1/4" bottom 4 1/4" Description of longitudinal joint Welded

No. of strengthening rings

Working pressure of furnace by the rules 180 lbs Combustion chamber plates: Material Steel Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 5/8"

Pitch of stays to ditto: Sides 8 1/2" x 8" Back 8 1/2" x 8" Top 8 1/2" x 8 1/2" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 187 lbs

Material of stays Steel Diameter at smallest part 1 1/2" Area supported by each stay 72.25" Working pressure by rules 195 lbs End plates in steam space:

Material Steel Thickness 1 3/32" Pitch of stays 17" x 17" How are stays secured B. Nuts Working pressure by rules 185 lbs Material of stays Steel

Area at smallest part 5' 8" Area supported by each stay 289" Working pressure by rules 180 lbs Material of Front plates at bottom Steel

Thickness 1 5/16" Material of Lower back plate Steel Thickness 7/8" x 3/4" Greatest pitch of stays 15 1/2" x 13" Working pressure of plate by rules 262 lbs

Diameter of tubes 3 1/2" Pitch of tubes 4 3/4" x 4 3/4" Material of tube plates Steel Thickness: Front 1 5/16" Back 1 3/16" Mean pitch of stays 9 3/4" x 9 1/2"

Pitch across wide water spaces 14 1/2" Working pressures by rules 182 lbs Girders to Chamber tops: Material Steel Depth and

thickness of girder at centre 9 1/2" x 1 3/4" Length as per rule 3' 0" Distance apart 8 1/2" Number and pitch of Stays in each 3 @ 8 1/2"

Working pressure by rules 184 lbs Superheater or Steam chest; how connected to boiler None 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

W832 8103

Lloyd's Register
Foundation

DONKEY BOILER—

No.

Description

None

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 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 &c.

The foregoing is a correct description,

F. J. Dalshorpe

Manufacturer.

Dates

During progress of

work in shops—

of Survey

During erection on

while

board vessel—

building

Total No. of

s 23.

1904:—Oct. 19. 21. 31. Nov. 3. 7. 15. 18. 22. 23. 28. Dec. 2. 9. 15. 17. 29 1905: Jan. 2. 5. 7. 9.

Is the approved plan of main boiler forwarded herewith *No. Retained*

" " " donkey " " "

General Remarks

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

The Engines & Boiler of this vessel have been constructed under Special Survey, are of good material and workmanship, and have been fitted & secured on board in accordance with the Rules. They are now in good working condition and in my opinion eligible to have the notation of + LMC 1.05 in the Register Book.

*It is submitted that
this vessel is eligible for
THE RECORD*

*+ L.M.C. 1.05**Emd.**10.2.05**H.S.**10.2.05*

Certificate (if required) to be sent to

The amount of Entry Fee..

£

1

:

:

:

When applied for,

Special

£

11

:

:

:

7/21 1905

Donkey Boiler Fee

£

:

:

:

When received,

Travelling Expenses (if any) £

:

:

:

:

1.5.05

Committee's Minute

Assigned

FRI. 10 FEB 1905

*+ L.M.C. 1.05*MACHINERY CERTIFICATE
WRITTEN.*J. Kerr*

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



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