

Port of Hull

Received at London Office

FEB. 27 1906

No. in Survey held at

Hull

Date, first Survey

Sep. 13th 1905Last Survey 19th Feb. 1906

Reg. Book.

63

on the

Steel S. K. Bromelia(Number of Visits 38)Tons { Gross 242Net 121When built 1906

Master

Built at

Selby

By whom built

Messrs. Bocheane Bros

Engines made at

By whom made

Messrs

when made

Boilers made at

Hull

By whom made

Charles D. Holmes & Co

when made

1906

Registered Horse Power

Owners

North Eastern Steam Fishing Co. Ltd

Port belonging to

H. G. Gimsby

Nom. Horse Power as per Section 28

68

Is Refrigerating Machinery fitted

No

Is Electric Light fitted

NoENGINES, &c.—Description of Engines Triple Expansion

No. of Cylinders

3No. of Cranks 3Dia. of Cylinders 12 1/4" ~ 22" ~ 35" Length of Stroke 24" Revs. per minute 110

Dia. of Screw shaft

as per rule 7 1/2"Material of SteelIs 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

Length of stern bush 30 1/2"

Dia. of Tunnel shaft

as per rule 6 3/8"

Dia. of Crank shaft journals

as per rule 6 1/4"

Dia. of Crank pin

7"Size of Crank webs 13 3/8" x 4 7/8"

Dia. of thrust shaft under

collars 7"

Dia. of screw

1 1/2"

Pitch of screw

11' 0"

No. of blades

4

State whether moveable

No

Total surface

28 sq

No. of Feed pumps

1

Diameter of ditto

2 1/8"

Stroke

24"

Can one be overhauled while the other is at work

No. of Bilge pumps

1

Diameter of ditto

2 1/8"

Stroke

24"

Can one be overhauled while the other is at work

No. of Donkey Engines

One

Sizes of Pumps

2 1/4" x 5"

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

In Engine Room

Two 2"In Holds, &c. Two 2", one to each slush well.

Ejector suction from Eng. Room bilge, slush wells, 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 the sluices on Engine room bulkheads always accessible

0

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

Slush well 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 S)

Total Heating Surface of Boilers

1090 sq

Is forced draft fitted

No

No. and Description of Boilers

One Cyl. Multi

Working Pressure

180 lbsTested by hydraulic pressure to 360 lbs

Date of test

26/1/06

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

32.8 sq

No. and Description of safety valves to

each boiler

Two Spring

Area of each valve

3.98 sq

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

12"

Mean dia. of boilers

12' 6"

Length

10' 0"

Material of shell plates

Steel

Thickness

1 1/2"

Range of tensile strength

29.32

Are they welded or flanged

Yes

Descrip. of riveting: cir. seams

L. D.

long. seams

D. B. S. J. R.

Diameter of rivet holes in long. seams

1 1/2"

Pitch of rivets

4"

Lap of plates or width of butt straps

15"

Per centages of strength of longitudinal joint

rivets

86

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"

No. and Description of Furnaces in each boiler

2 plain

Material

Steel

Outside diameter

43"

Length of plain part

top

5' 10"

Thickness of plates

crown

4 1/2"

Description of longitudinal joint

Welded

No. of strengthening rings

0

Working pressure of furnace by the rules

185 lbs

Combustion chamber plates: Material

Steel

Thickness: Sides

3/16"

Back

1/16"

Top

3/16"

Bottom

3/16"

Pitch of stays to ditto: Sides

9" x 10"

Back

9" x 8 1/4"

Top

9" x 8 1/2"

If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules

219 lbs

Material of stays

Steel

Diameter at smallest part

1 1/8" 1 1/4"

Area supported by each stay

117 sq

Working pressure by rules

184 lbs

End plates in steam space:

Material

Steel

Thickness

1 1/2"

Pitch of stays

16" x 18 3/4"

How are stays secured

screwed into both end plates

Working pressure by rules

186 lbs

Material of stays

Steel

Area

6.33

Area supported by each stay

300 sq

Working pressure by rules

211 lbs

Material of Front plates at bottom

Steel

Thickness

3/32"

Material of Lower back plate

Steel

Thickness

15/16"

Greatest pitch of stays

17 3/4"

Working pressure of plate by rules

180 lbs

Diameter of tubes

3 1/4"

Pitch of tubes

4 1/4" x 4 5/8"

Material of tube plates

Steel

Thickness: Front

3/32"

Back

1/8"

Mean pitch of stays

9 1/4"

Pitch across wide water spaces

16"

Working pressures by rules

180 lbs

Girders to Chamber tops: Material

Iron

Depth and

thickness of girder at centre

9" x 1 1/4"

Length as per rule

2' 8"

Distance apart

9'

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 workedseparately

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

holes

Pitch of rivets

Working pressure of shell by rules

180 lbs

Diameter of flue

Material of flue plates

Thickness

End plates: Thickness

How stayed

Working pressure by rules

180 lbs

Are they fitted with easing gear

Yes

Working pressure of end plates

180 lbs

Area of safety valves to superheater

Are they fitted with easing gearYes

Working pressure by rules

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	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		

The foregoing is a correct description,

The foregoing is a correct description,
 Charles F. Holmes *Manufacturer.*

Dates of Survey while building { During progress of work in shops - - } 1905:- Sep 13. 19. Oct 3. 4. 10. 19. 24. 25. Nov 1. 2. 13. 14. 22. 24. 28. 29. Dec. 4. 5. 6. 13. 20.
{ During erection on board vessel - - } 1906:- Jan 2. 3. 9. 11. 17. 19. 22. 26. 30. Feb. 5. 6. 7. 8. 10. 14. 16. 19.
Total No. of visits 38

Is the approved plan of main boiler forwarded herewith { Yes } See

Is the approved plan of main boiler forwarded herewith

As it was
sent on
with Hull
Rpt 8^o 1758

General Remarks (State quality of workmanship, opinions as to class, &c. The machinery boiler of) this vessel have been inspected throughout construction in accordance with the Societys 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 notation of $\frac{1}{2}$ L. M. C. 2.66 in the Register Book.

This machinery and boiler of this vessel are duplicate
to that fitted on the Abdonia Hull Report #17581

It is submitted that
this vessel is eligible for
THE RECORD **FILM** C 2.06

Am. 8. 86

27.2.06

The amount of Entry Fee..	£	1	:	.	:	When applied for,	
Special	£	10	:	4	:	23/2/1906	12
Donkey Boiler Fee	£	.	:	.	:	When received,	
Travelling Expenses (if any)	£	.	:	8	:	28/2/07	13

James Barclay
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.
21. 2. 06

Committee's Minute

ERL. 2 MAR 1906

Assigned

MACHINERY CERTIFICATE
WRITTEN