

REPORT ON MACHINERY.

No. 18015

Port of Hull

Received at London Office THUR. 21 JUN 1906

Survey held at Selby & Hull

Date, first Survey Jan 26th Last Survey June 7th 1906

on the Screw Trawler "Westminster"

(Number of Visits 21)

Tons { Gross 252
Net 106

Built at Selby

By whom built Cochrane & Sons

When built 1906

made at Hull

By whom made Charles D. Holmes & Co

when made 1906

made at do

By whom made do

when made 1906

1 Horse Power

Owners Premier Steam Fishing Co Ltd Port belonging to Grimsby

Power as per Section 28 68.74

Is Refrigerating Machinery fitted for cargo purposes No

Is Electric Light fitted No

ES, &c.—Description of Engines

Triple

No. of Cylinders 3

No. of Cranks 3

Cylinders 12 1/4, 22, 35 Length of Stroke 24

Revs. per minute 112

Dia. of Screw shaft

as per rule 7 1/2 as fitted 7 1/2 Material of screw shaft Iron

Is shaft fitted with a continuous liner the whole length of the stern tube yes

Is the after end of the liner made water tight

propeller boss yes If the liner is in more than one length are the joints burned yes

If the liner does not fit tightly at the part

the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

✓ If two

fitted, is the shaft lapped or protected between the liners

Length of stern bush 36

as per rule 6.38

as per rule 6.69

Dia. of Crank shaft journals

as fitted 7

Dia. of Crank pin 7

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

Dia. of thrust shaft under

7 Dia. of screw 8 1/2

Pitch of Screw 11.0

No. of Blades 4

State whether moveable No

Total surface 27 1/2 sq. ft

ed pumps 1

Diameter of ditto 2 1/8

Stroke 24

Can one be overhauled while the other is at work

✓

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Stroke 24

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✓

Donkey Engines One

Sizes of Pumps

2 3/4 x 5

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

Room Two 2" dia.

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

fore hold. Ejector suction from all bilges & discharge on deck

Is Injections 1

sizes 3

Connected to condenser, or to circulating pump

Is a separate Donkey Suction fitted in Engine room & size 2 1/2" Ejector

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 none

connections with the sea direct on the skin of the ship yes

Are they Valves or Cocks Both

placed 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

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

are carried through the bunkers Hold suction

How are they protected Wood casing

pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes

bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges yes

examination of completion of fitting of Sea Connections

6/4/06

of Stern Tube

9/4/06

Screw shaft and Propeller 9/4/06

new Shaft Tunnel watertight none

Is it fitted with a watertight door

worked from

ES, &c.—(Letter for record (S))

Manufacturers of Steel Wm Beardmore & Co Ltd.

ating Surface of Boilers 1110 sq. ft

Forced Draft fitted No

No. and Description of Boilers One 5 1/2 cyl. Mult.

Pressure 180 lbs

Tested by hydraulic pressure to 360 lbs

Date of test 11.5.06

No. of Certificate 1472

boiler be worked separately

Area of fire grate in each boiler 33.25 sq. ft

No. and Description of Safety Valves to

Two direct springs

Area of each valve

3.9

Pressure to which they are adjusted 185 lbs

Are they fitted with easing gear yes

distance between boilers or uptakes and bunkers or woodwork

5

Mean dia. of boilers

12.6

Length 10.0

Material of shell plates Steel

1 1/2 Range of tensile strength 29-32

Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams B.R. Lap.

5 B.R. 5 Rivets Diameter of rivet holes in long. seams

1 1/2

Pitch of rivets

7

Lap of plates or width of butt straps 15

es 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

compensating ring

7 x 1 1/2

No. and Description of Furnaces in each boiler Two plain

Material Steel

Outside diameter 3.7

plain part

top 5.10

Thickness of plates

bottom 5.32

crowns 4.9

bottom 6.4

Description of longitudinal joint welded

No. of strengthening rings

✓

pressure of furnace by the rules 185 lbs

Combustion chamber plates: Material Steel

Thickness: Sides

2 3/32

Back 1/16

Top 2 3/32

Bottom 2 3/32

lays to ditto: Sides

7 x 8 1/2

Back 7 x 8 1/2

Top 8 3/4 x 8 1/2

If stays are fitted with nuts or riveted heads Nuts

Working pressure by rules 194 lbs

of stays Steel

Diameter at smallest part 1 5/8

Area supported by each stay 76.5

Working pressure by rules 244 lbs

End plates in steam space:

Steel

Thickness 1 3/32

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

How are stays secured Nuts

Working pressure by rules 185 lbs

Material of stays Steel

at smallest part 6.21

Area supported by each stay 306.25

Working pressure by rules 202 lbs

Material of Front plates at bottom Steel

7/8

Material of Lower back plate Steel

Thickness 1 5/8

Greatest pitch of stays 12 x 21

Working pressure of plate by rules 204 lbs

of tubes 3 1/4

Pitch of tubes 4 3/4 x 4 5/8

Material of tube plates Steel

Thickness: Front 7/8

Back 7/8

ross wide water spaces 15

Working pressures by rules 313 lbs

Girders to Chamber tops: Material Iron

Depth and

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 308 1/2

pressure by rules 193 lbs

Superheater or Steam chest; how connected to boiler

✓ Diameter

✓ Length

✓ Thickness of shell plates

✓ Material

✓ Description of longitudinal joint

✓ Diam. of rivet

✓ Pitch of rivets

✓ Working pressure of shell by rules

✓ Diameter of flue

✓ Material of flue plates

✓ End plates: Thickness

✓ How stayed

✓ pressure of end plates

✓ Area of safety valves to superheater

✓ Are they fitted with easing gear

✓

✓

✓

✓

✓

l with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

✓

✓

pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

✓

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pressure of end plates

Area of safety valves to superheater

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pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

✓

VERTICAL DONKEY BOILER— Manufacturers of Steel

No. Description
 Made at By whom made When made Where fixed
 Working pressure tested by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of Safety
 Valves No. of Safety Valves Area of each Pressure to which they are adjusted Date of adjustment
 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
 Working pressure of shell by rules Thickness of shell crown plates Radius of do. No. of stays to do. Dia. of stays Plates
 Diameter of furnace Top Bottom Length of furnace Thickness of furnace plates Description of joint
 Working pressure of furnace by rules Thickness of furnace crown plates Stayed by
 Diameter of uptake Thickness of uptake plates Thickness of water tubes Dates of survey

SPARE GEAR. State the articles supplied:—Two top & 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,
 Charles V. Holmes Manufacturer.

Dates of Survey while building { During progress of work in shops - 1906: Jan 26, Feb 15, Mar 5, 14, 22, 30 Apr 5, 6, 9, 20, 26, 27 May 10, 11, 18, 24, 25, 28, 31.
 { During erection on board vessel - Jun 2, 7.
 Total No. of visits 21

Is the approved plan of main boiler forwarded herewith Rpt No. 17996

Dates of Examination of principal parts—Cylinders 27/4/06 10/5/06 Slides 18/5/06 Covers 24/5/06 Pistons 18/5/06 Rods 18/5/06
 Connecting rods 18/5/06 Crank shaft 24/5/06 Thrust shaft 27/4/06 Tunnel shafts ✓ Screw shaft 5/4/06 Propeller 5/4/06
 Stern tube 5/4/06 Steam pipes tested 31/5/06 Engine and boiler seatings 6/4/06 Engines holding down bolts 28/5/06
 Completion of pumping arrangements 2/6/06 Boilers fixed 31/5/06 Engines tried under steam 2/6/06
 Main boiler safety valves adjusted 2/6/06 Thickness of adjusting washers $F \frac{1}{4}$ " $A \frac{3}{8}$ "
 Material of Crank shaft Steel Identification Mark on Do. LLOYDS 245 AH 1670 2.1906 Material of Thrust shaft Iron Identification Mark on Do. LLOYDS 245 JK 18.5.06 JK
 Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts Iron Identification Marks on Do. LLOYDS 245 JK 5.4.06 JK
 Material of Steam Pipes Solid drawn copper Test pressure 360 lbs.

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

The Engines and Boiler of this vessel have been constructed under Special Survey, are of good material and workmanship, and have been fitted 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 of +LMC 6, 06 in the Register Book.

It is submitted that
 this vessel is eligible for
 THE RECORD +LMC 6.06.

The amount of Entry Fee... £ 1 : : : When applied for, 18/6/1906
 Special ... £ 10 7 : : :
 Donkey Boiler Fee ... £ : : : When received, 29.6.06
 Travelling Expenses (if any) £ : 8 2 : : : 30.6.06

Committee's Minute

FRI. 22 JUN 1906

Assigned

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



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MACHINERY CERTIFICATE
 WRITTEN.