

REPORT ON MACHINERY

No. 29149

Received at London Office SAT. 11 MAR. 1916

Date of writing Report 8-3-16

When handed in at Local Office 9-3-16

Port of Hull

No. in Survey held at Hull

Reg. Book.

Date, First Survey July 5-15 Last Survey 8-3-16 19

45 tons on the steel screw trawler "Lt. Cuthbert"

(Number of Vents 59)

Master

Built at

Lilly

By whom built

Cochrane & Sons Ltd

Tons Gross 311

Net 161

When built 1916-3

Engines made at

Hull

By whom made

C. D. Holmes & Co Ltd (101100)

when made 1916-3

Boilers made at

Hull

By whom made

C. D. Holmes & Co Ltd

when made 1916-3

Registered Horse Power

Owners

Gurnsey Victoria Iron Fishing Co Ltd

Port belonging to

Gurnsey

Nom. Horse Power as per Section 28

80

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

yes

ENGINES, &c.—Description of Engines

Triple expansion

No. of Cylinders

Three

No. of Cranks

3

Dia. of Cylinders 13"-23"-37"

Length of Stroke 24"

Revs. per minute

Dia. of Screw shaft

as per rule 7 1/4"

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

yes

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

yes

If two

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

Length of stern bush 35 1/2"

Dia. of Tunnel shaft

as per rule

6 1/2"

Dia. of Crank shaft journals

as per rule

6 9/4"

Dia. of Crank pin

7 1/2"

Size of Crank webs

4 1/2" x 1 1/2"

Dia. of thrust shaft under

collars

7 1/2"

Dia. of screw

9-1 1/2"

Pitch of Screw

11-0"

No. of Blades

4

State whether moveable

no

Total surface

30 1/4 ft

No. of Feed pumps

Two

Diameter of ditto

2 1/2"

Stroke

24"

Can one be overhauled while the other is at work

yes

No. of Bilge pumps

Two

Diameter of ditto

2 1/2"

Stroke

24"

Can one be overhauled while the other is at work

yes

No. of Donkey Engines

One

Size of Pumps

6" x 3 1/2" x 6"

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

In Engine Room

Two

2" dia

In Holds, &c.

One

2" dia

in each compartment

all suction also connected to ejector

No. of Bilge Injections

one

size 3"

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

none

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

That pipes are carried through the bunkers

forward suction

How are they protected

strong wooden 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

Dates of examination of completion of fitting of Sea Connections

7-9-15

of Stern Tube

7-9-15

Screw shaft and Propeller

7-9-15

Is the Screw Shaft Tunnel watertight

yes

Is it fitted with a watertight door

yes

worked from

yes

BOILERS, &c.—(Letter for record S)

Manufacturers of Steel

Tewit & Sons

Total Heating Surface of Boilers

1332 ft

Is Forced Draft fitted

no

No. and Description of Boilers

one single ended

Working Pressure

180 lbs

Tested by hydraulic pressure to

360 lbs

Date of test

17-12-15

No. of Certificate

3122

Is each boiler worked separately

yes

Area of fire grate in each boiler

42 3/4 ft

No. and Description of Safety Valves to

each boiler

two spring loaded

Area of each valve

4 9/4"

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

9 1/2"

Mean dia. of boilers

162"

Length

10-6"

Material of shell plates

steel

Thickness

1 1/8"

Range of tensile strength

28-32 tons

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

double

seams

T. R. A. B. I.

Diameter of rivet holes in long. seams

1 1/4"

Pitch of rivets

8 1/2"

Gap of plates or width of butt straps

18 3/4"

Percentages of strength of longitudinal joint

rivets 95-6

plate 85-29

Working pressure of shell by rules

185

Size of manhole in shell

16" x 12"

No. of compensating ring

7" x 1 1/8"

No. and Description of Furnaces in each boiler

3 Plain

Material

steel

Outside diameter

38"

Thick of plain part

top 70 3/4"

Thickness of plates

crown 23/32"

Description of longitudinal joint

welded

No. of strengthening rings

yes

Working pressure of furnace by the rules

180

Combustion chamber plates: Material

steel

Thickness: Sides

1 1/16"

Back

1 1/16"

Top

1 1/16"

Bottom

1"

No. of stays to ditto: Sides

9 1/2" x 7 3/4"

Back

9" x 8 1/2"

Top

11" x 7 3/4"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

180

Material of stays

steel

Diameter at smallest part

1 7/16"

Area supported by each stay

76 1/2"

Working pressure by rules

184

End plates in steam space

yes

Material

steel

Thickness

1 7/16"

Pitch of stays

19" x 15"

How are stays secured

8" x 1 1/4"

Working pressure by rules

182

Material of stays

steel

Area at smallest part

6 3/32"

Area supported by each stay

285"

Working pressure by rules

231

Material of Front plates at bottom

steel

Less 1"

Material of Lower back plate

steel

Thickness

15/16"

Greatest pitch of stays

15 1/2" x 9"

Working pressure of plate by rules

188

Pitch of tubes

3 1/2"

Pitch of tubes

5" x 4 3/4"

Material of tube plates

steel

Thickness: Front

1"

Back

7/8"

Mean pitch of stays

9 3/4"

across wide water spaces

14"

Working pressures by rules

183

Girders to Chamber tops: Material

steel

Depth and

width of girder at centre

9 1/2" x 1 3/4"

Length as per rule

33.93

Distance apart

11"

Number and pitch of stays in each

three

7 3/4"

Working pressure by rules

182

Superheater or Steam chest; how connected to boiler

yes

Can the superheater be shut off and the boiler worked

separately

yes

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

Thickness

How stayed

Are they fitted with easing gear

yes

Stiffened with rings

Distance between rings

Working pressure by rules

