

REPORT ON MACHINERY.

No. 26884

Date of writing Report 30th Oct. 1913. When handed in at Local Office

Received at London Office

SAT. NOV. 8-1913

No. in Survey held at
Reg. Book.

Hull.

7/11/13 Port of Hull.

Date, First Survey Apr 24 = Last Survey Oct 27 = 1913

(Number of Visits 22)

Tons { Gross 265
Net 108

When built 1913.

Master

Built at

Hull.

By whom built

Cochrane & Co. Ltd.

Engines made at

Hull.

By whom made

Amos & Smith Ltd

when made

1913.

Boilers made at

Hull.

By whom made

Amos & Smith Ltd

when made

1913.

Registered Horse Power

Owners

The Thine Ste. Fishing Co.

Port belonging to

Grimsby.

Nom. Horse Power as per Section 28

88.

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 $\frac{3}{4}$ 22 $\frac{1}{2}$ 37.

Length of Stroke

24.

Revs. per minute

Dia. of Screw shaft

as per rule 7.68

Material of

screw shaft

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 or protected between the liners

Length of stern bush

3'-0"

Dia. of Tunnel shaft

as per rule 6.76

Dia. of Crank shaft journals

as per rule 7.1.

Dia. of Crank pin

Size of Crank web

Dia. of thrust shaft under

collars

No. of Feed pumps

1.

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

No. of Bilge pumps

1.

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

No. of Donkey Engines

1.

Sizes of Pumps

7" x 4" x 6"

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

In Engine Room 2-2" On forward & On aft.

In Holds, &c.

4-2" Fore Peak, Fish room

Forward slush well, After slush well.

2" ejector from all bilges.

No. of Bilge Injections

1

sizes

3"

Connected to condenser, or to circulating pump

Is a separate Donkey Suction fitted in Engine room & size 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.

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.

Dates of examination of completion of fitting of Sea Connections

3.9.13.

of Stern Tube

3.9.13.

Screw shaft and Propeller

3.9.13.

Is the Screw Shaft Tunnel watertight

yes.

Is it fitted with a watertight door

yes.

worked from

BOILERS, &c.—(Letter for record

S. 14)

Manufacturers of Steel Messrs. Bleck & Schulz-Rnaudt, Huelingen.

Total Heating Surface of Boilers

1508

Is Forced Draft fitted

no.

No. and Description of Boilers

One Single-ended.

Working Pressure

200 lbs.

Tested by hydraulic pressure to

400 lbs.

Date of test

3.10.13.

No. of Certificate

2020.

Can each boiler be worked separately

yes.

Area of fire grate in each boiler

40

No. and Description of Safety Valves to

each boiler

2-Spring loaded.

Area of each valve

4.9

Pressure to which they are adjusted

205 lbs.

Are they fitted with easing gear

yes.

Smallest distance between boilers or uptakes and bunkers or woodwork

8"

EXT

Mean dia. of boilers

13-6.

Length

18-6.

Material of shell plates

Thickness

1/32

Range of tensile strength

29-33.

Are the shell plates welded or flanged

no.

Descrip. of riveting: cir. seams

DR Lap

long. seams

10BS spind

Diameter of rivet holes in long. seams

1/32

Pitch of rivets

8 1/4"

Lap of plates or width of butt straps

1 1/4"

Per centages of strength of longitudinal joint

rivets 91.

plate 85.2.

Working pressure of shell by rules

202.

Size of manhole in shell

16x12.

Size of compensating ring

40x30x1/32

No. and Description of Furnaces in each boiler

3 plain

Material

S.

Outside diameter

3 1/4 1/8

Length of plain part

top 80.5

bottom 80.5

Thickness of plates

crown 13/16

Description of longitudinal joint

welded.

No. of strengthening rings

one

Working pressure of furnace by the rules

203.

Pitch of stays to ditto: Sides

8 1/2 x 9 1/2

Back

8 1/2 x 9 1/2

Top

9 1/2 x 8 1/2

stays are fitted with nuts or riveted heads

nuts

Material of stays

S.

Diameter at smallest part

2.06

Area supported by each stay

80.75

Working pressure by rules

230.

End plates in steam space:

Material

S.

Thickness

1/8

Pitch of stays

17 x 17 1/4

How are stays secured

to Marked

Working pressure by rules

204.

Diameter at smallest part

7 1/4

Area supported by each stay

293.25

Working pressure by rules

250.

Material of Front plates at bottom

S.

Thickness

1"

Material of Lower back plate

S.

Thickness

7/8

Greatest pitch of stays

13 1/8 x 9.

Working pressure of plate by rules

200

Pitch across wide water spaces

thickness of girder at centre

9 x 1 1/4

Length as per rule

2-9 1/4

Distance apart

8 1/2

Number and pitch of stays in each

3 at 8 1/2"

Working pressure by rules

Superheater or Steam chest; how connected to boiler

220

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

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

w945-0084

Lloyd's Register

Foundation

IS A DONKEY BOILER FITTED? *No.*

If so, is a report now forwarded? *✓*

SPARE GEAR. State the articles supplied:—

Two each top & bottom end connecting rod bolts & nuts, Two main bearing bolts & nuts, One set of coupling bolts & nuts, One set each of feed & charge valves, A quantity of assorted bolts & nuts, Iron of various sizes.

The foregoing is a correct description,

FOR AMOS & SMITH LTD.

W. S. Hide

Manufacturer.

Managing Director.

Dates of Survey while building { During progress of work in shops - - } 1913 - Apr 24. May 5. June 18. 27. July 8. 14. Aug 21. 29. Sep 3. 8. 13. 23. 25 Oct 1. 3. 15.
{ During erection on board vessel - - } Oct 16. 17. 20. 21. 22. 27.
Total No. of visits 27

Is the approved plan of main boiler forwarded herewith *yes*

Dates of Examination of principal parts—Cylinders *8.9.13.* Slides *8.9.13.* Covers *25.9.13.* Pistons *25.9.13.* Rods *23.9.13.*
Connecting rods *23.9.13.* Crank shaft *23.9.13.* Thrust shaft *29.8.13.* Tunnel shafts *✓* Screw shaft *29.8.13.* Propeller *29.8.13.*
Stern tube *29.8.13.* Steam pipes tested *21.10.13.* Engine and boiler seatings *3.9.13.* Engines holding down bolts *20.10.13.*
Completion of pumping arrangements *20.10.13.* Boilers fixed *20.10.13.* Engines tried under steam *22.10.13.*
Main boiler safety valves adjusted *22.10.13.* Thickness of adjusting washers *SV 1/4" PV 1/4"*
Material of Crank shaft *Steel* Identification Mark on Do. *1178.* Material of Thrust shaft *Steel* Identification Mark on Do. *1178.*
Material of Tunnel shafts *✓* Identification Marks on Do. *1178.* Material of Screw shafts *Iron* Identification Marks on Do. *1178.*
Material of Steam Pipes *Copper solid drawn* Test pressure *Looks hyd. press.*
Is an installation fitted for burning oil fuel *no.* Is the flash point of the oil to be used over 150°F. *✓*

Have the requirements of Section 49 of the Rules been complied with *✓*

Is this machinery duplicate of a previous case *no.* If so, state name of vessel *✓*

General Remarks (State quality of workmanship, opinions as to class, &c. *The engines and boiler of this vessel have been constructed under special survey in accordance with the Rules. The materials & workmanship are sound and good. The boiler tested by hydraulic press. are and with the engines secured 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 +LMC 10.13 in the Register book.*

It is submitted that
this vessel is eligible for
THE RECORD. + LMC 10.13.

JWD
18/11/13
ARR

The amount of Entry Fee ... £ 1 : :
Special ... £ 13 : 4 :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : 2 : 9 : 28/11/13

When applied for,

When received,

Committee's Minute TUE. NOV. 11. 1913

Assigned

MACHINERY CERTIFICATE
WRITTEN.



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