

REPORT ON MACHINERY.

No. 51972

MUN. 14 FEB 1910

Received at London Office

of writing Report

19

When handed in at Local Office

10. 2.

1910

Port of

Newcastle.

Survey held at

Newcastle.

Date, First Survey

9 Aug. 1907

Last Survey

9 Feb 1910

Book.

on the

S.S. "Boverton"

(Number of Visits 33.)

Tons

Gross 3117

Net 1953

When built 1910

ter

Built at Newcastle.

By whom built

Thorne & Sons Ltd.

when made 1910

ines made at

Newcastle.

By whom made

H. & M. Eng Co. Ltd.

when made 1910

ers made at

"

By whom made

"

"

when made 1910

istered Horse Power

Owners

Ever Thomas, Radcliffe & Co.

Port belonging to

Garaff

Horse Power as per Section 28

298

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

No

INES, &c.—Description of Engines

On C.P.D.

No. of Cylinders

3

No. of Cranks

3

of Cylinders

24" 40" 65"

Length of Stroke

42"

Revs. per minute

64

Dia. of Screw shaft

as per rule 1.3.36

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

Is 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

If two

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

Yes

Length of stern bush

5 feet

of Tunnel shaft

as per rule 11.49

Dia. of Crank shaft journals

as per rule 12.34

Dia. of Crank pin

12 5/8"

Size of Crank webs

24 5/8" x 8"

Dia. of thrust shaft under

12 5/8"

Dia. of screw

16"

Pitch of Screw

16"

No. of Blades

4

of Feed pumps

2

Diameter of ditto

3 1/2"

Stroke

24"

Can one be overhauled while the other is at work

Yes

of Bilge pumps

2

Diameter of ditto

4"

Stroke

24"

Can one be overhauled while the other is at work

Yes

of Donkey Engines

2

Sizes of Pumps

6 1/2 x 4 x 6 1/2 + 7 1/2 x 4 x 10 1/2

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

Engine Room

4 of 3" + 1 of 2 1/2" in tunnel with

in Holds, &c.

2 of 3" to each

of Bilge Injections

1

sizes

4"

Connected to condenser, or to circulating pump

Yes

Is a separate Donkey Suction fitted in Engine room & size

Yes - 3 1/2"

Are 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

Yes

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

Are the pipes carried through the bunkers

nil

How are they protected

Yes

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

Is the examination of completion of fitting of Sea Connections

3.12.09

of Stern Tube

3.12.09

Screw shaft and Propeller

3.12.09

Is the Screw Shaft Tunnel watertight

Yes

Is it fitted with a watertight door

Yes

worked from top platform

MANUFACTURERS, &c.—(Letter for record

8)

Manufacturers of Steel

J. Spencer & Sons Ltd.

Heating Surface of Boilers

4616 sq ft

Is Forced Draft fitted

No

No. and Description of Boilers

2

B.E.

Working Pressure

180 lbs

Tested by hydraulic pressure to

360

Date of test

8.11.07

No. of Certificate

7622

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

62 1/2 sq ft

No. and Description of Safety Valves to

2

spring

Area of each valve

7.07 sq in

Pressure to which they are adjusted

185 lbs

Least distance between boilers or uptakes and bunkers or woodwork

20"

Mean dia. of boilers

15' 6"

Length

10' 6"

Material of shell plates

8

Thickness

1 3/8"

Range of tensile strength

28 1/2 - 32

Are the shell plates welded or flanged

10

Descrip. of riveting: cir. seams

2 + Lap

seams

d butt

Diameter of rivet holes in long. seams

1 3/8"

Pitch of rivets

8 7/8"

Lap of plates or width of butt straps

18 1/2"

Percentages of strength of longitudinal joint

84.9

Working pressure of shell by rules

184

Size of manhole in shell

34 1/2"

16 x 12

of compensating ring

Flanged

No. and Description of Furnaces in each boiler

3

Dayton

Material

8

Outside diameter

49"

Length of plain part

top

Thickness of plates

19

Description of longitudinal joint

Welded

No. of strengthening rings

1

Working pressure of furnace by the rules

192

Combustion chamber plates: Material

8

Thickness: Sides

3/4"

Back

3/4"

Top

3/4"

Bottom

1 1/2"

No. of stays to ditto: Sides

11 1/2 x 8 3/4"

Back

11 1/2 x 8 3/4"

Top

11 1/2 x 8 3/4"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

185

Material of stays

8

Diameter at smallest part

2.05"

Area supported by each stay

181"

Working pressure by rules

181

End plates in steam space:

Material

8

Thickness

1 3/8"

Pitch of stays

22 x 22"

How are stays secured

8 nuts

Working pressure by rules

185

Material at smallest part

8 1/2"

Area supported by each stay

484

Working pressure by rules

182

Material of Front plates at bottom

8

Thickness

1 3/8"

</

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 _____ Plates _____

Working pressure of shell by rules _____ 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 _____

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 end, 2 bottom end, 2 main bearing and 1 set of Coupling bolts, 1 Propeller, 1 Propeller shaft, bolts & nuts assorted and iron of sizes, 1 set Feed and Pilge pump Valve 2 Feed Check Valves.*

The foregoing is a correct description,
NORTH EASTERN MARINE ENGINEERING Co., LTD.

Manufacturer.

1907
Aug. 9. 13. 28. 30. Sep. 12. Oct. 1. 4. 11. 14. 17. 18. 29. 30. Nov. 5. 14. 15. Dec. 11. 19. 27. 29.
1910
Jan. 5. 17. 30. 31. Feb. 9.
Secretary.
Dates of Survey while building
During progress of work in shops - - -
During erection on board vessel - - -
Total No. of visits 33

Is the approved plan of main boiler forwarded herewith *Yes*.

Dates of Examination of principal parts—Cylinders *3.6.07* Slides *9.8.07* Covers *9.8.07* Pistons *9.8.07* Rods *9.8.07*
Connecting rods *9.8.07* Crank shaft *24.7.07* Thrust shaft *24.7.07* Tunnel shafts *31.7.07* Screw shaft *12.9.07* Propeller *4.10.07*
Stern tube *4.10.07* Steam pipes tested *17.12.09* Engine and boiler seatings *3.12.09* Engines holding down bolts *17.12.09*
Completion of pumping arrangements *29.12.09* Boilers fixed *17.12.09* Engines tried under steam *29.12.09*
Main boiler safety valves adjusted *29.12.09* Thickness of adjusting washers *P.P. 7/16, P.S. 7/16; S.P. 3/8, S.S. 7/16*
Material of Crank shaft *S* Identification Mark on Do. *R.J.T.F* Material of Thrust shaft *S* Identification Mark on Do. *R.J.T.F*
Material of Tunnel shafts *S* Identification Marks on Do. *R.J.T.F* Material of Screw shafts *S* Identification Marks on Do. *R.J.T.F*
Material of Steam Pipes *Copper* Test pressure *360 lbs*

General Remarks (State quality of workmanship, opinions as to class, &c.) *The machinery and boiler of this vessel have been built under Special Survey. The material & workmanship are good, the machinery has been satisfactorily fitted on board & the engines tried under steam.*

The Boilers of this vessel have been carefully attended to and kept coated during the time they have been in the works and in my opinion may be considered new boilers at this date 1910

*We beg to recommend that this vessel is eligible in our opinion to have the record **L.M.C. 2.10** in the Register Book*

It is submitted that this vessel is eligible for THE RECORD + L.M.C. 2.10

The amount of Entry Fee .. £ 2 : 0 : 0
Special .. £ 34 : 19 : 0
Donkey Boiler Fee .. £ : :
Traveling Expenses (if any) £ : :
When applied for, 12 FEB 1910
When received, 14.2.10

Committee's Minute

FRI. 18 FEB 1910

Assigned

+ L.M.C. 2.10

J. Y. Findlay
R. V. Coomber

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



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Lloyd's Register Foundation

MACHINERY CERTIFICATE

15.2.10

Certificate (if required) to be sent to the Registrar of Shipping, Newcastle-on-Tyne.

FLAT PLATE (If Bar Ke GARBOARD)

State actual thickness way of Donkey Bottom

DOUBLING

Length and thickness

POOP SIDE BRIDGE SIDE FORECAST

Man

manufact

Plates, Pl

Conse

Slide

Don

Has the S

FRAMES

REVERS

LOWER M

Bowsprit

Topmasts

Rigging,

Sails.

EQUIP

Number of

Certificate.

11405

10824

11149

9893

9957

Number of

Certificate

3345

Iron-Steel

Chain

Steel W

Boats

Pumps,

Windla

Engine

What ar

Coal B

Number

Ceiling

Cargo

State siz

Number

Bulwar

The abo

Builder's