

Rpt. 4.

REPORT ON MACHINERY.

No. 71531

Date of writing Report 16th Dec 1918 When handed in at Local Office

Received at London Office

Port of

NEWCASTLE-ON-TYNE

No. in Survey held at Newcastle
Reg. Book.Date, First Survey 12th Dec 1917. Last Survey 13th Dec 1918

(Number of Visits 81)

on the S.S. "War Town"

Master

Built at Newcastle

By whom built

Wood Skinner & Co

Tons

Gross 3099

Net 1857

When built 1918

Engines made at Newcastle

By whom made

H. & Maine Eng Co

2357

when made 1918

Boilers made at

Do

By whom made

Do

2390

when made 1918

Registered Horse Power

Owners

The Shipping Controller

Port belonging to

London

Nom. Horse Power as per Section 28 429

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

yes

ENGINES, &c.—Description of Engines

Triple Expansion

No. of Cylinders

3

No. of Cranks

3

Dia. of Cylinders 25"-41"-68"

Length of Stroke

45"

Revs. per minute

80

Dia. of Screw shaft

as per rule 13.52

Material of

Hon

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

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

yes

Length of stern bush 5'-0"

Dia. of Tunnel shaft

as per rule 12.41

Dia. of Crank shaft journals

as per rule 13.03

Dia. of Crank pin

13 1/4"

Size of Crank webs

21 x 8 3/4"

Dia. of Thrust shaft under

collars

13 1/4"

Dia. of screw

16'-0"

Pitch of Screw

16'-3"

No. of Blades

4

State whether moveable

no

Total surface

80 sq

No. of Feed pumps

2

Diameter of ditto

3 1/2"

Stroke

24"

Can one be overhauled while the other is at work

yes

No. of Bilge pumps

2

Diameter of ditto

3 1/2"

Stroke

24"

Can one be overhauled while the other is at work

yes

No. of Donkey Engines

3

Sizes of Pumps

2-9 1/2 x 7 x 18"

1-10 1/2 x 12 1/2 x 21"

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

In Engine Room

Five 3"

In Holds, &c.

No. 1 hold 2-3"

No. 2 hold 2-3"

No. 3 hold 2-3"

No. 4 hold 2-3"

No. 5 hold 2-2 1/2"

Hold Well 1-2 1/2"

Tunnel Well 1-2 1/2"

No. of Bilge Injections

2 sizes 8"

Connected to condenser or to circulating pump

yes

Is a separate Donkey Suction fitted in Engine room & size

yes 3"

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

Both

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

Bilge 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

5-9-18

of Stern Tube

5-9-18

Screw shaft and Propeller

14-10-18

Is the Screw Shaft Tunnel watertight

yes

Is it fitted with a watertight door

no

worked from

yes

BOILERS, &c.—(Letter for record 5)

Manufacturers of Steel

John Spence & Sons

Total Heating Surface of Boilers 6324 sq

Is Forced Draft fitted

yes

No. and Description of Boilers

Three, single ended

Working Pressure 180 lbs

Tested by hydraulic pressure to

360 lbs

Dates of test

2-27-9-18

No. of Certificates

2-9-18

Can each boiler be worked separately

yes

Area of fire grate in each boiler

51-7 sq

No. and Description of Safety Valves to

each boiler

Two spring

Area of each valve

8-29 sq

Pressure to which they are adjusted

180 lbs

Are they fitted with easing gear

yes

Smallest distance between boiler or uptakes and bunkers or woodwork

18"

Mean dia. of boilers

13'-9 3/4"

Length

11'-8 5/16"

Material of shell plates

Steel

Thickness

1 1/2"

Range of tensile strength

28 3/4 - 33

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

8. Lap

long. seams

B.S. & Riv

Diameter of rivet holes in long. seams

1 3/4"

Pitch of rivets

8 1/2"

Lap of plates or width of butt straps

18"

Per centages of strength of longitudinal joint

rivets 86.1

plate 86

Working pressure of shell by rules

187 lbs

Size of manhole in shell

16 x 12

Size of compensating ring

Flanged

No. and Description of Furnaces in each boiler

3- brightons

Material

Steel

Outside diameter

43"

Length of plain part

top 17"

crown 17"

bottom 32"

Description of longitudinal joint

Welded

No. of strengthening rings

yes

Working pressure of furnace by the rules

190 lbs

Combustion chamber plates: Material

Steel

Thickness: Sides

11/16"

Back

3/4"

Pitch of stays to ditto: Sides

9 x 9 3/8"

Back

10 1/2 x 9"

Top

9 x 9 3/8"

If stays are fitted with nuts or riveted heads

nuts

Material of stays

Steel

Diameter at smallest part

2-03"

Area supported by each stay

84-3 sq

Working pressure by rules

216 lbs

Material

Steel

Thickness

1 1/2"

Pitch of stays

23 3/4 x 19 1/2"

How are stays secured

In & W

Material of Front plates at bottom

Steel

Thickness

3 1/2"

Greatest pitch of stays

13 1/2"

Working pressure of plate by rules

180 lbs

Diameter of tubes

2 3/4"

Pitch of tubes

4 x 4"

Material of tube plates

Steel

Thickness: Front

31/32"

Pitch across wide water spaces

13 1/2"

Working pressures by rules

184 lbs

Girders to Chamber tops: Material

Steel

Depth and

thickness of girder at centre

10 1/2 x 1 1/2"

Length as per rule

35 1/2"

Distance apart

9 3/8"

Number and pitch of stays in each

3-9"

Working pressure by rules

200 lbs

Superheater or Steam chest; how connected to boiler

none

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

End plates: Thickness

How stayed

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

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IS A DONKEY BOILER FITTED? *no*

If so, is a report now forwarded? *✓*

SPARE GEAR. State the articles supplied:— *Two top-end, two bottom-end & two main-bearing bolts & nuts, a set of coupling bolts, a set of feed & bilge pump valves, a quantity of assorted bolts nuts & iron & a propeller.*

The foregoing is a correct description,

FOR THE NORTH EASTERN MARINE ENGINEERING CO. LD.

Manufacturer.

S. Harrison
1917. 1918. SECRETARY
Dates of Survey while building { During progress of work in shops -- } Dec. 12. 18. Jan. 16. Mar. 4. 5. May 10. 13. 16. 17. 21. Jun. 7. 18. 20. July. 8. 10. 11. 15. 16. 17. 19. 22. 24. 30. Aug. 2. 6. 8. 12. 13. 15. 16.
{ During erection on board vessel -- } 20. 21. 22. 24. 28. 30. Sept. 2. 3. 5. 6. 11. 16. 19. 23. 25. 26. 27. 30. Oct. 4. 7. 8. 14. 17. 18. 21. 22. 23. 24. 25. 28. 31. Nov. 1. 4. 6. 7. 15. 18. 19. 22. 25. 26.
28. 29. Dec. 5. 6. 9. 10. 11. 13. 18. 20.
Total No. of visits *81*

Is the approved plan of main boiler forwarded herewith *no*

" " " donkey " " " *✓*

Dates of Examination of principal parts—Cylinders *27-9-18* Slides *23-9-18* Covers *19-9-18* Pistons *19-9-18* Rods *19-9-18*

Connecting rods *19-9-18* Crank shaft *2-9-18* Thrust shaft *18-6-18* Tunnel shafts *22-8-18* Screw shaft *21-8-18* Propeller *8-10-18*

Stern tube *18-6-18* Steam pipes tested *17-10-18* Engine and boiler seatings *5-9-18* Engines holding down bolts *10-12-18*

Completion of pumping arrangements *13-12-18* Boilers fixed *10-12-18* Engines tried under steam *13-12-18*

Main boiler safety valves adjusted *13-12-18* Thickness of adjusting washers PB. $P\frac{1}{4}S\frac{3}{4}$. CB. $P\frac{3}{4}S\frac{1}{4}$. SB. $P\frac{3}{4}S\frac{3}{4}$

Material of Crank shaft *Steel* Identification Mark on Do. *Y. X. 8-18* Material of Thrust shaft *Steel* Identification Mark on Do. *Y. X. 6-18*

Material of Tunnel shafts *Iron* Identification Marks on Do. *Y. X. 8-18* Material of Screw shafts *Iron* Identification Marks on Do. *Y. X. 8-18*

Material of Steam Pipes *Iron* Test pressure *540 lbs*

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 *✓* If so, state name of vessel *Standard C.*

General Remarks (State quality of workmanship, opinions as to class, &c. *The engines & boilers of this vessel have been constructed under special survey & the materials and workmanship are sound & good. The engines have been tried under steam and the boiler safety valves adjusted at the working pressure. The machinery of this vessel is now in good & safe working condition & eligible in my opinion to have the notation of + LMC 12-18.*

A report on the electric installation will be forwarded when received from the Electricians.

It is submitted that
this vessel is eligible for
THE RECORD. + LMC 12. 18. F.D.

The amount of Entry Fee ... £ : : When applied for,
Special ... £ *68.17* 4 *27.12.1918*
Donkey Boiler Fee ... £ : : When received, *13/1/19*
Travelling Expenses (if any) £ : : *2.1.1919*

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

Committee's Minute

TUE JAN 21 1919

Assigned

+ LMC 12. 18

L.D.



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Foundation