

REPORT ON MACHINERY.

No. 74153

Received at London Office

THU 3 MAR 1921

Date of writing Report

19

When handed in at Local Office

19

Port of

Newcastle-on-Tyne

No. in Survey held at
Reg. Book.

Newcastle-on-Tyne

Date, First Survey

4th July 1919

Last Survey

18th Jan 1921

(Number of Visits)

88

on the

S.S. "Eastney"

Master

Built at

Hendon-on-Tyne

By whom built

Northumberland S.B. Co. Ltd

Tons

Gross

Net

When built 1921

Engines made at

Wallend-on-Tyne

By whom made

Wallend Shipway & Engineering Co. Ltd

when made 1921

Boilers made at

Wallend-on-Tyne

By whom made

1-do (Eng. No. 833)

when made 1921

Registered Horse Power

Owners

Romney Steamship Co. Ltd

Port belonging to

London

Nom. Horse Power as per Section 28

370

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"-69"

Length of Stroke

48"

Revs. per minute

58

Dia. of Screw shaft

as per rule 14.2"

Material of

Steel

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

Yes

Length of stern bush

5'-2"

Dia. of Tunnel shaft

as per rule 12.7"

Dia. of Crank shaft journals

as per rule 13.33"

Dia. of Crank pin

14"

Size of Crank webs

22 1/2" x 9 1/2"

Dia. of thrust shaft under

collars

14"

Dia. of screw

17'-6"

Pitch of Screw

19'-6"

No. of Blades

4

State whether moveable

No

Total surface

95 sq ft

No. of Feed pumps

2

Diameter of ditto

4"

Stroke

24"

Can one be overhauled while the other is at work

Yes

No. of Bilge pumps

2

Diameter of ditto

4 1/2"

Stroke

24"

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines

2

Sizes of Pumps

Ballast Duplex 9" x 10" x 10"

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

Aux. Feed Duplex 7 1/2" x 5" x 6"

In Engine Room

2 - 3 1/2"

In stokehold

2 - 3 1/2"

In Holds, &c.

2 - 3 1/2"

Tunnel Well Suction 2 1/2"

No. of Bilge Injections

1

sizes

7 1/2"

Connected to condenser, or to circulating pump

Yes

Is a separate Donkey Suction fitted in Engine room & size

Yes 3 1/2"

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

None

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 Screw Shaft Tunnel watertight

Yes

Is it fitted with a watertight door

Yes

worked from

Upper platform

BOILERS, &c.—(Letter for record

S.)

Manufacturers of Steel

J. Spencer & Sons.

Total Heating Surface of Boilers

5883

Is Forced Draft fitted

No

No. and Description of Boilers

3 Single Ended

Working Pressure

180

Tested by hydraulic pressure to

320

Date of test

28/10/20

No. of Certificate

9478

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

51.7 sq ft

No. and Description of Safety Valves to

each boiler

2 Spring Loaded

Area of each valve

70"

Pressure to which they are adjusted

185

Are they fitted with easing gear

Yes

Smallest distance between boilers or uptakes and bunkers or woodwork

3'-6"

Mean dia. of boilers

13'-9 1/2"

Length

10'-9"

Material of shell plates

Steel

Thickness

1 3/32"

Range of tensile strength

30/34

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

DR. L.J.

long. seams

T. welded

Diameter of rivet holes in long. seams

1 3/16"

Pitch of rivets

8 3/16"

Lap of plates or width of butt straps

17 5/8"

Per centages of strength of longitudinal joint

rivets 92.25

plate 85.5

Working pressure of shell by rules

188

Size of manhole in shell

16" x 12"

Size of compensating ring

No Heils

No. and Description of Furnaces in each boiler

3 Single

Material

Steel

Outside diameter

41 7/8"

Length of plain part

top

bottom

Thickness of plates

crown

bottom

1 1/2"

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

2 1/32"

Back

2 1/32"

Top

2 1/32"

Bottom

7/8"

Pitch of stays to ditto: Sides

9 7/8" x 8"

Back

9" x 9"

Top

9" x 8 7/8"

If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules

183

Material of stays

Steel

Area at smallest part

1.73 sq ft

Area supported by each stay

81 sq ft

Working pressure by rules

180

End plates in steam space:

Material

Steel

Thickness

1 9/32"

Pitch of stays

21" x 20"

How are stays secured

D. nuts

Working pressure by rules

180

Material of stays

Steel

Area at smallest part

7.24 sq ft

Area supported by each stay

420 sq ft

Working pressure by rules

180

Material of Front plates at bottom

Steel

Thickness

1"

Material of Lower back plate

Steel

Thickness

7/8"

Greatest pitch of stays

14"

Working pressure of plate by rules

191 lb.

Diameter of tubes

3 1/4"

Pitch of tubes

4 1/2" x 4 7/8"

Material of tube plates

Steel

Thickness: Front

1"

Back

3/4"

Mean pitch of stays

8 7/8"

Pitch across wide water spaces

14"

Working pressures by rules

183

Girders to Chamber tops: Material

Steel

Depth and

thickness of girder at centre

6 7/8" x 1 1/2"

Length as per rule

26 1/32"

Distance apart

9"

Number and pitch of stays in each

2 - 8 7/8"

Working pressure by rules

180 lb.

Steam dome: description of joint to shell

None

% of strength of joint

Yes

Diameter

Yes

Thickness of shell plates

Yes

Material

Yes

Description of longitudinal joint

Yes

Diam. of rivet holes

Yes

Pitch of rivets

Yes

Working pressure of shell by rules

Yes

Crown plates

Yes

Thickness

Yes

How stayed

Yes

SUPERHEATER. Type

Date of

IS A DONKEY BOILER FITTED?

No

If so, is a report now forwarded?

Yes

SPARE GEAR. State the articles supplied:— 1 Cast Iron Propeller, 2 bottom end bolts + nuts, 2 top end bolts + nuts, 2 main bearing bolts + nuts, 6 Coupling bolts + nuts, 2 feed pump valves, 2 bilge pump valves, 2 cut. iron plate, 1 cut. iron bars, 100 bolts + nuts assorted, 1 doz. gauge glasses, 4 doz. india rubber rings, 1 set feed donkey valves, 1 set ballast donkey valves, 12 piston bolts, 100 firebars (plan) 2 firebar patterns.

The foregoing is a correct description,

FOR THE WALLSEND SLIPWAY & ENGINEERING CO. LIMITED.

Admiral

DIRECTOR

Manufacturer.

Dates of Survey while building
During progress of work in shops -- 1919 Jul 7-8-14-18-23-24 Aug 6-18-19-24 Sep 3-5-8-18-22-23-25 Oct 2-7-9-10-13-17-21-22-23-28-29 Nov 2-10-11-25 Dec 4-17-19
During erection on board vessel -- 1920 Jan 9-14-18-22-24 Mar 2-8-10-11-15-19-22-23-24-25-26 Apr 7-9-12-15 Jun 2-4-8 Jul 2 Sep 8-20-29-30 Oct 3-6-11-12-13-14-15
Total No. of visits 1919 Nov 2-4-5-7-10-15-19-22 Dec 3-10-22 1920 Jan 6-7-15 (89) Is the approved plan of main boiler forwarded herewith on Aug 6 832. Plan forwarded with report

Dates of Examination of principal parts—Cylinders 20.9.20 Slides 19.11.20 Covers 19.11.20 Pistons 19.11.20 Rods 10.10.19
Connecting rods 10.10.19 Crank shaft 9.1.20 Thrust shaft 15.3.20 Tunnel shafts 6.10.20 Screw shaft 1.11.20 Propeller 12.10.20
Stern tube 11.10.20 Steam pipes tested 14.10.20 Engine and boiler seatings 11.10.20 Engines holding down bolts 6.1.21
Completion of pumping arrangements 18.1.21 Boilers fixed 6.1.21 Engines tried under steam 18.1.21
Completion of fitting sea connections 11.10.20 Stern tube 11.10.20 Screw shaft and propeller 6.1.21
Main boiler safety valves adjusted 18.1.21 Thickness of adjusting washers P=3/8, 5/16. Centre Boiler. P=3/8, 5/16. Star Boiler. P=3/8, 5/16
Material of Crank shaft Steel Identification Mark on Do. 1.20 T.F. Material of Thrust shaft Steel Identification Mark on Do. 3.20 T.F.
Material of Tunnel shafts Steel Identification Marks on Do. 3.12.20 PR, 6.20 RLA, 10.20 PR Material of Screw shafts Steel Identification Marks on Do. 1.11.20 PR
Material of Steam Pipes Steel Test pressure 540

Is an installation fitted for burning oil fuel No. Is the flash point of the oil to be used over 150° F. Yes

Have the requirements of Section 49 of the Rules been complied with Yes

Is this machinery duplicate of a previous case Yes If so, state name of vessel Engine No 832. "San Michele".

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

The Engines + Boilers of this vessel were built under special survey, & the materials + workmanship are good. After putting in place on board they were examined under steam & found to work satisfactorily.
The machinery throughout is now in good + efficient condition + eligible in my opinion to have the record of L.M.C. 2.21. marked in the society's Register Book.

It is submitted that this vessel is eligible for THE RECORD + LMC 1.21. CL.

JWZ 8/3/21

L. N. Stuart
Engineer Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee ... £ 5 : 0 :
Special ... £ 80 : 13 :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :
When applied for, 2.3.1921
When received, 2.4.1921

Committee's Minute

Assigned

+ L.M.C. 1.21
C.L.



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Foundation