

REPORT ON MACHINERY.

No. 11030

Received at London Office

TUE. 27 SEP. 1921

Date of writing Report 21st Sept. 1921 When handed in at Local Office

19

Port of Southampton

No. in Survey held at Southampton

Date, First Survey 1.11.20.

Last Survey 20.9.1921.

Reg. Book.

(Number of Visits 44.)

Gross 1744.

38161 on the TSS. "LISCARD."

Net 999.

Master

Built at Southampton

By whom built J. S. Thornycroft & Co. Ltd.

When built 1921.

Engines made at Southampton

By whom made J. S. Thornycroft & Co. Ltd.

when made 1921.

Boilers made at Southampton

By whom made Day, Summers & Co. Ltd.

when made 1921.

Registered Horse Power

Owners Wallacey Corporation

Port belonging to

Nom. Horse Power as per Section 28

208

Is Refrigerating Machinery fitted for cargo purposes

no.

Is Electric Light fitted

yes.

ENGINES, &c.—Description of Engines

Triple expansion

No. of Cylinders 6

No. of Cranks 6

Dia. of Cylinders 14 1/2, 23 1/2, 38

Length of Stroke 24

Revs. per minute 142

Dia. of Screw shaft

as per rule 7.93

Material of

S.

Is the screw shaft fitted with a continuous liner the whole length of the stern tube

no liner

Is the after end of the liner made water tight

in the propeller boss

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 1' 6" AFT 3'-0"

Dia. of Tunnel shaft

as per rule 6.5

6.5

Dia. of Crank shaft journals

as per rule 7.35

7.35

Dia. of Crank pin

8'-9"

Size of Crank web

4 1/2 x 5 1/4

Dia. of thrust shaft under

collars

7 3/8

Dia. of screw

8'-9"

Pitch of Screw

11'-5"

No. of Blades 3

State whether moveable

no.

Total surface

19 1/2

Separate

Feed pumps

Duplex

Diameter of ditto

7 1/2 x 5 x 10

Stroke

Can one be overhauled while the other is at work

yes

Separate

Bilge pumps

Diameter of ditto

12" outlet

Stroke

Can one be overhauled while the other is at work

yes

Separate

Donkey engines

One

Sizes of Pumps

7 1/2 x 5 x 10

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

In Engine Room

Two at 2 1/2" dia.

In Holds, &c.

Two at 2 1/2" dia.

No. of Bilge Injections 1

sizes 8"

Connected to condenser, or to circulating pump

Is a separate Donkey Suction fitted in Engine room & size

yes. 2 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

none

Is it fitted with a watertight door

worked from

BOILERS, &c.—(Letter for record

(S)

Manufacturers of Steel

Stewart & Lloyd.

Total Heating Surface of Boilers 3939

Is Forced Draft fitted

no.

No. and Description of Boilers

3 single ended

S.C.

No. of Certificate

353

354.

Working Pressure

180 lbs.

Tested by hydraulic pressure to

320.

Date of test

2.6.21

2.6.21

No. of Certificate

353

354.

Can each boiler be worked separately

yes.

Area of fire grate in each boiler

42 1/2

No. and Description of Safety Valves to

each boiler

Two - spring

Area of each valve

4.9

Pressure to which they are adjusted

180 lbs.

Are they fitted with easing gear

yes.

Smallest distance between boilers or uptakes and bunkers or woodwork

6'-6"

Mean dia. of boilers

11'-6"

Length

10'-9"

Material of shell plates

S.

Thickness

1 1/16"

Range of tensile strength

29-33.

Are the shell plates welded or flanged

yes.

Descrip. of riveting: cir. seams

10R.

long. seams

T.R. 10 R.S.

Diameter of rivet holes in long. seams

18"

Pitch of rivets

7 1/8"

Lap of plates or width of butt straps

1'-4 3/8"

end plates

12 x 16"

Per centages of strength of longitudinal joint

85.35

Working pressure of shell by rules

202.

Size of manhole in

12 x 16"

Size of compensating ring

No. and Description of Furnaces in each boiler

2 corrugated

Material

S.

Outside diameter

3'-9"

Length of plain part

top 11'-6"

Thickness of plates

bottom 9 1/16"

Description of longitudinal joint

Welded

No. of strengthening rings

yes.

Working pressure of furnace by the rules

196.

Combustion chamber plates: Material

S.

Thickness: Sides

5 7/8"

Back

19"

Top

5 7/8"

Bottom

7 1/8"

Pitch of stays to ditto: Sides

8 3/4 x 8 3/4"

Back

8 3/4 x 8 3/4"

Top

8 3/4 x 8 3/4"

Stays are fitted with nuts or riveted heads

nuts.

Working pressure by rules

180 lbs.

Material of stays

Steel

Area at smallest part

1.73

Area supported by each stay

72.2

Working pressure by rules

192.

End plates in steam space:

Material

S.

Thickness

3 1/2"

Pitch of stays

16 x 15 1/2"

How are stays secured

BNRWS.

Working pressure by rules

193.

Material of stays

S.

Area at smallest part

5.05

Area supported by each stay

248

Working pressure by rules

212.

Material of Front plates at bottom

S.

Thickness

7 1/8"

Material of Lower back plate

S.

Thickness

3 1/2"

Greatest pitch of stays

13 x 8 3/8"

Working pressure of plate by rules

191.

Diameter of tubes

3"

Pitch of tubes

4 x 4 1/8"

Material of tube plates

S.

Thickness: Front

7 1/8"

Back

3 1/4"

Mean pitch of stays

8 x 12 3/8"

Pitch across wide water spaces

13 1/4"

Working pressures by rules

180 lbs.

Girders to Chamber tops: Material

S.

Depth and

thickness of girder at centre

2 x 8 x 13 1/2"

Length as per rule

2'-6 1/2"

Distance apart

8 1/4"

Number and pitch of stays in each

2 at 8 3/4"

Working pressure by rules

202.

Steam dome: description of joint to shell

% of strength of joint

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

How stayed

Pitch of rivets

Working pressure of shell by rules

Crown plates

Thickness

SUPERHEATER. Type

Date of Approval of Plan

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Pressure to which each is adjusted

Is Easing Gear fitted

006694-005704-017

IS A DONKEY BOILER FITTED?

no.

If so, is a report now forwarded?

✓

SPARE GEAR. State the articles supplied:—

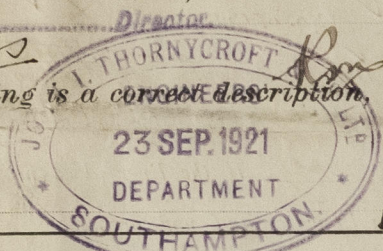
Two each top and bottom end connecting rod bolts and nuts, two main bearing bolts nuts, one set of coupling bolts and nuts, one set each feed & bilge pump valves, iron of various sizes, a quantity of assorted bolts nuts etc. one pair of connecting rod braces. 12 condenser tubes. 20 Boiler tubes, 10 tube stoppers & stay tubes. 1 set air pump valves.

For Day, Summers & Co., Ltd.

Lampson & Day for Boilers

for Boilers

The foregoing is a correct description.



Dates of Survey while building	During progress of work in shops --	During erection on board vessel --	Total No. of visits	Is the approved plan of main boiler forwarded herewith	
1.9.24.30	1.9.14.22	3.11.14.20	1.9.10.18	4.14.21.23	4.6.9.14.18.23
11.20	12.20	12.21	2.21	3.21	4.21
1.14.16.22.27.30	4.5.13.11.21.26.28	7.21	11.18.31	13.16.20	8.21
6.21	7.21	8.21	9.21	10.21	11.21

Dates of Examination of principal parts—Cylinders 23.3.21. Slides 23.3.21. Covers 19.3.21. Pistons 19.3.21. Rods 1.6.21.

Connecting rods 1.6.21. Crank shaft 27.6.21. Thrust shaft 27.6.21. Tunnel shafts 27.6.21. Screw shaft 14.3.21. Propeller 14.3.21.

Stern tube 14.3.21. Steam pipes tested 11.9.21. Engine and boiler seatings 22.6.21. Engines holding down bolts 30.6.21.

Completion of pumping arrangements 23.9.21. Boilers fixed 30.6.21. Engines tried under steam 13.9.21.

Completion of fitting sea connections 22.6.21. Stern tube 22.6.21. Screw shaft and propeller 22.6.21.

Main boiler safety valves adjusted 13.9.21. Thickness of adjusting washers PB PV 2 1/2" SV 32. CBP 32. S 32. SB 32. S 11. P 13. P 13. P 13.

Material of Crank shaft S Identification Mark on Do. P.5026 Material of Thrust shaft S Identification Mark on Do. P.5026.

Material of Tunnel shafts S Identification Marks on Do. P.5027 Material of Screw shafts S Identification Marks on Do. P.4952.

Material of Steam Pipes Copper Test pressure 3 bolts. 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 yes.

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 & boilers of this vessel have been constructed under special survey in accordance with the Rules & approved plans. The materials & workmanship are sound and good. The Boilers tested by hydraulic pressure and with the engines secured on board & 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 9.21. in the Register book.

It is submitted that this vessel is eligible for THE RECORD + LMC 9.21.

And. J. D. 29/9/21.

The amount of Entry Fee	Special	Donkey Boiler Fee	Travelling Expenses (if any)
£ 4 : 0	£ 52 : 0	£ ✓ : ✓	£ ✓ : ✓

Committee's Minute TUE. 4 OCT. 1921

Assigned + LMC 9.21



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