

REPORT ON MACHINERY.

No. 81376

WED. OCT. 20 1920

Received at London Office

Date of writing Report

19

When handed in at Local Office

19

Port of

Liverpool

No. in Survey held at
Reg. Book.

58137 on the

Queensferry
Steam Drifter "Foam"

Date, First Survey

Jan 22 1920

Last Survey

Oct 12 1920

(Number of Visits)

Master

Built at

Queensferry

By whom built

Abdel & Mitchell Ltd.

When built

1920

Engines made at

Brimscombe Glos.

By whom made

Abdel & Mitchell Ltd.

when made

1920

Boilers made at

Stockton

By whom made

Thos. Ludlow & Co. Ltd.

when made

1919

Registered Horse Power

Owners

The Admiralty

Port belonging to

Nom. Horse Power as per Section 28

43

Is Refrigerating Machinery fitted for cargo purposes

No.

Is Electric Light fitted

No.

ENGINES, &c.

Description of Engines

Triple Expansion I. Condensing

No. of Cylinders

3

No. of Cranks

3

Dia. of Cylinders

9 1/2, 15 1/2, 26

Length of Stroke

18

Revs. per minute

140

Dia. of Screw shaft

as per rule

57

Material of

steel

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

No liners

Is the after end of the liner made water tight

in the propeller boss

J

If the liner is in more than one length are the joints burned

J

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

J

If two

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

Length of stern bush

2' 1"

Dia. of Tunnel shaft

as per rule

4.79

Dia. of Crank shaft journals

as per rule

5.03

Dia. of Crank pin

5 1/2

Size of Crank webs

3 1/2 x 10 1/2

Dia. of thrust shaft under

collars

5 1/2

Dia. of screw

6' 9"

Pitch of Screw

8' 6"

No. of Blades

4

State whether moveable

No

Total surface

18 1/2

No. of Feed pumps

1

Diameter of ditto

2"

Stroke

9"

Can one be overhauled while the other is at work

J

No. of Bilge pumps

1

Diameter of ditto

2"

Stroke

9"

Can one be overhauled while the other is at work

J

No. of Donkey Engines

1

Sizes of Pumps

5 1/2, 3 1/2

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

In Engine Room

2 - 2"

1 Ejector - 2"

5"

In Holds, &c.

1 - 2"

Steam ejector connection

No. of Bilge Injections

1

sizes

2"

Connected to condenser, or to circulating pump

Direct

Is a separate Donkey Suction fitted in Engine room & size

yes. 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

J

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

J

Is it fitted with a watertight door

J

worked from

J

BOILERS, &c.

(Letter for record)

5

Manufacturers of Steel

Total Heating Surface of Boilers

814 1/2

Is Forced Draft fitted

No

No. and Description of Boilers

One Single Ended.

Working Pressure

180 lbs.

Tested by hydraulic pressure to

360 lbs.

Date of test

4.9.19.

No. of Certificate

6031.

Can each boiler be worked separately

J

Area of fire grate in each boiler

30 1/2

No. and Description of Safety Valves to

each boiler

2 Direct Spring

Area of each valve

3.98

Pressure to which they are adjusted

185 lbs.

Are they fitted with easing gear

yes.

Smallest distance between boilers or uptakes and bunkers or woodwork

6 1/2

Mean dia. of boilers

10' 0"

Length

9' 6"

Material of shell plates

Thickness

Range of tensile strength

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams

long. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Lap of plates or width of butt straps

Per centages of strength of longitudinal joint

rivets

Working pressure of shell by rules

Size of manhole in shell

Size of compensating ring

No.

Description of Furnaces in each boiler

Material

Outside diameter

Length of plain part

top

bottom

Thickness of plates

crown

bottom

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber plates: Material

Thickness: Sides

Back

Top

Bottom

If stays are fitted with nuts or riveted heads

Working pressure by rules

End plates in steam space:

Pitch of stays to ditto: Sides

Back

Top

Bottom

Material of stays

Area at smallest part

Area supported by each stay

Working pressure by rules

Material of stays

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Material of Front plates at bottom

Area at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

Thickness

Material of Lower back plate

Thickness

Greatest pitch of stays

Working pressure of plate by rules

Diameter of tubes

Pitch of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

Pitch across wide water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and

thickness of girder at centre

Length as per rule

Distance apart

Number and pitch of stays in each

Working pressure by rules

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

Pitch of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

SUPERHEATER.

Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

Date of Test

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

Diameter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

Foundation

No.

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— 2 Connecting rod bolts & nuts for top & bottom ends. 2 main bearing bolts & nuts. 1 set of coupling bolts & nuts 1 set each of valves for feed, bilge, air & circulating pumps 6 condensed tubes, 12 feetules & tape packing. Assortment of bolts, nuts, iron of various sizes, studs & too 1 Safety valve spring. (each) main & donkey check valve. 3 boiler tubes, 1 set of fire bars.

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building	{ During progress of work in shops -- { During erection on board vessel -- { Total No. of visits	1919. Jan 28. 1920. Jan 22. Feb 19. Mch 12. 31. Apl 19. May 14. 26. Jun 25. Jul 12-16. Aug 4. Sept 7. 23. 27.
		18. Oct 1. 12.
		Is the approved plan of main boiler forwarded herewith <i>Yes.</i>

Is the approved plan of main boiler forwarded herewith no.

Dates of Examination of principal parts—Cylinders — Slides — Covers — Pistons — Rods —

Connecting rods — Crank shaft — Thrust shaft 19.2.20 Tunnel shafts — Screw shaft 24.3.19 Propeller 28.6.1

Stern tube 28-6-19. Steam pipes tested 7.7.20 Engine and boiler seatings 28-6-19. Engines holding down bolts 25.6.20.

Completion of pumping arrangements 27-9-20. Boilers fixed 25-6-20. Engines tried under steam 27+29-9-20.

Completion of fitting sea connections 28-6-19. Stern tube 28.6.19. / Screw shaft and propeller 28.6.19.

Main boiler safety valves adjusted 27-9-20. Thickness of adjusting washers P+S- $\frac{5}{16}$.
 LLOYD LLOYD

Material of Crank shaft	skel	Identification Mark on Do.	4805 J.R.W.	Material of Thrust shaft	skel	Identification Mark on Do.	4805 J.R.W.
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Material of Tunnel shafts — Identification Marks on Do. — Material of Screw shafts Steel Identification Marks on Do. R.F.M.

Material of Steam Pipes Copper Test pressure 150 lbs.

Is an installation fitted for burning oil fuel ☐ — ☐ 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 St. Louis


General Remarks (State quality of workmanship, opinions as to class, &c. *This machinery - Engines - Boilers &c*

Jan 10/33. Boiler Middleton's Pat No. 10503. has been securely fitted on board, and

[illegible]

then under sign with satisfactory result.

This machinery is required for the purpose of the

7  Sub 10.30. 1 SB-180 lbs. GS-30. HS-814.

It is submitted that
this vessel is eligible for

THE RECORD. + LMC. 10. 20.

Recd. 24

22/10/20

s Mind

The amount of Entry Fee ... £ : : When applied for,

Assigned with Admiralty Life 4 10.

Travelling Expenses (if any) £ ~~18/-~~ 29.1.21

Traveling Expenses (airfare) 244.74 *6/26*
(Exclusive fee.)

Committee's Minute

The S
Assigned II L M 6 10 20 PM. Lloyd's Register

2
MACHINERY
2/2/21
20
Foundation

MASS. WRITING
dated 20.10