

Date of writing Report

19

When handed in at Local Office

4/12/1924 Port of

NEWCASTLE-ON-TYNE.

No. in Survey held at  
Reg. Book.

on the

S.S. BRITISH CONSUL

Date, First Survey

31<sup>st</sup> Jan

Last Survey

2/12/1924

(Number of Visits 80)

Gross

Net

Master

Built at

Sunderland

By whom built

H. J. Lamb &amp; Co. Ltd.

When built

1924

Engines made at

J. &amp; A. Lamb

By whom made

Palmer &amp; Co. (1438)

when made

1924

Boilers made at

do

By whom made

do

when made

1924

Registered Horse Power

Owners

British Tanker Co. Ltd.

Port belonging to

London

Nom. Horse Power as per Section 28

587.581

Is Refrigerating Machinery fitted for cargo purposes

No.

Is Electric Light fitted

Yes

## ENGINES, &amp;c.—Description of Engines

Triple expansion

No. of Cylinders

3

No. of Cranks

3

Dia. of Cylinders

28.46 76

Length of Stroke

57

Revs. per minute

70

Dia. of Screw shaft

as per rule 15.52

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

5.5

Dia. of Tunnel shaft

as per rule 13.958

Dia. of Crank shaft journals

as per rule 14.65

Dia. of Crank pin

15

Size of Crank webs

32 x 10

Dia. of thrust shaft under

collars

15

Dia. of screw

19.3

Pitch of Screw

17.9

No. of Blades

4

State whether moveable

Yes

Total surface

105.4

No. of Feed pumps

2

Diameter of ditto

4.5

Stroke

27

Can one be overhauled while the other is at work

Yes

No. of Bilge pumps

2

Diameter of ditto

4.5

Stroke

27

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines

2

Sizes of Pumps

12.9 x 10 x 10

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

In Engine Room

3 Bilge Rooms 3 @ 3.5

In Holds, &amp;c.

No. of Bilge Injections

1

sizes

9.5

Connected to condenser, or to circulating pump

Yes

Is a separate Donkey Suction fitted in Engine room &amp; size

6.5

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

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

What pipes are carried through the bunkers

None

How are they protected

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

## BOILERS, &amp;c.—(Letter for record

L. 7)

Manufacturers of Steel

John Hume &amp; Co. Ltd. David Brown &amp; Co. Ltd.

Total Heating Surface of Boilers

8634

Is Forced Draft fitted

Yes

No. and Description of Boilers

3 SE

Muth

Working Pressure

180 lbs

Tested by hydraulic pressure to

320 lbs

Date of test

28/8/24

No. of Certificate

9852

9852

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

oil fuel

No. and Description of Safety Valves to

each boiler

2 spring loaded

Area of each valve

12.566

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

1-6

Mean dia. of boilers

15-9.5

Length

12-3.5

Material of shell plates

Steel

Thickness

1.5

Range of tensile strength

28/32 tons

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

J.R.L.

long. seams

TRIPS

Diameter of rivet holes in long. seams

1.3

Pitch of rivets

9.5

Lap of plates or width of butt straps

1-8.5

Size of manhole in shell

16 x 12

Material of stays

Steel

Outside diameter

4-1.5

Per centages of strength of longitudinal joint

rivets 91.74

plate 85.52

Working pressure of shell by rules

183.9

Size of strengthening rings

No.

Description of longitudinal joint

Welded

No. of strengthening rings

Size of compensating ring

2.14 x 2.9 x 1.6

No. and Description of Furnaces in each boiler

3

Description of longitudinal joint

Welded

No. of strengthening rings

No.

Description of longitudinal joint

Welded

No. of strengthening rings

No.

Length of plain part

top

bottom

Thickness of plates

crown 3.18

bottom 3.32

Description of longitudinal joint

Welded

No. of strengthening rings

No.

Working pressure of furnace by the rules

186

Combustion chamber plates: Material

Steel

Thickness: Sides

23

Back

13

Top

25

Bottom

5

Pitch of stays to ditto: Sides

9.5 x 10.5

Back

9 x 9.5

Top

14 x 8

If stays are fitted with nuts or riveted heads

Yes

Working pressure by rules

184.8

Material of stays

Steel

Area at smallest part

2.71

Area supported by each stay

1.73

Working pressure by rules

183

Material of stays

Steel

Material of Front plates at bottom

Steel

Material of stays

Steel

Area at smallest part

8.48

Area supported by each stay

577.5

Working pressure by rules

183

Material of Front plates at bottom

Steel

Material of stays

Steel

Material of stays

Steel

Material of stays

Steel

Thickness

1.5

Material of Lower back plate

Steel

Thickness

1.5

Greatest pitch of stays

14.5 x 9.5

Working pressure of plate by rules

298

Diameter of tubes

3.5

Pitch of tubes

4.5 x 4.5

Material of tube plates

Steel

Thickness: Front

1.5

Back

1.5

Mean pitch of stays

11.125

Pitch across wide water spaces

14.5

Working pressures by rules

211.2

Girders to Chamber tops: Material

Steel

Depth and

thickness of girder at centre

9.5 x 1.5

Length as per rule

2-10.5

Distance apart

8

Number and pitch of stays in each

Two 2 1/2

Working pressure by rules

194.2

Steam dome: description of joint to shell

Yes

% 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

—



IS A DONKEY BOILER FITTED?

If so, is a report now forwarded? *Yes*

SPARE GEAR.

State the articles supplied:—

*one set coupling, 2 bottom end, 4 top end & 4 main bearing bolts  
1 nut, one plain crank pin bushes, 1 eccentric sheave & strap, 2 top end bearings, 1 white  
spindle & block, 24 pin in bolts, 1 set rings & spring for each piston, 1 setting for 4 pistons valve  
one air pump rod, one set air pump valves, 24 standard tubes, 50 standard, one set standard pack  
for each rod, 2 feed pump valves & seats, one set bilge pump valves & seats, one propeller shaft  
2 cast iron propeller blades, one spring for each side of shaft, 9 propeller thrust pin, 2  
main feed check valves, 2 air feed check valves, 6 plain & 12 tube stopper  
a quantity of bolts & nuts of various sizes & set.*

The foregoing is a correct description.

*Palmer's Shipbuilding & Iron Co., Ltd.*

*General Manager, Engine Works*

Manufacturer.

Dates of Survey while building  
During progress of work in shops -- 1924 Jan 31, Feb 4, 11, 12, 20, 21, 31, Apr 3, 7, 23, 25, 29, May 2, 5, 7, 13, 14, 15, 16, 20, 21, 29, June 2, 4, 5, 6, 10, 15.  
During erection on board vessel -- 20, July 2, 3, 4, 9, 11, 14, 15, 19, 22, 24, 28, 29, 30, Aug 6, 13, 14, 15, 20, 25, Sept 3, 8, 10, 14, 16, 17, 24, Oct 2, 5, 16, 21, 28, 29, 30.  
Total No. of visits 80.

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

" " " donkey " " " *Yes*

Dates of Examination of principal parts—Cylinders 20/5/24 Slides 29/4/24 Covers 20/5/24 Pistons 29/5/24 Rods 23/4/24  
Connecting rods 23/4/24 Crank shaft 2/6/24 Thrust shaft 26/5/24 Tunnel shafts 10/9/24 Screw shaft 8/9/24 Propeller 14/8/24  
Stern tube 24/7/24 Steam pipes tested 18/11/24 Engine and boiler seatings 28/10/24 Engines holding down bolts 10/11/24.  
Completion of pumping arrangements 2/12/24 Boilers fixed 14/11/24 Engines tried under steam 2/12/24.  
Completion of fitting sea connections 29/11/24 Stern tube 29/11/24 Screw shaft and propeller 29/11/24.  
Main boiler safety valves adjusted 25/11/24 Thickness of adjusting washers  $P\frac{1}{2} S\frac{1}{2}$   $P\frac{1}{2} S\frac{1}{2}$   $P\frac{1}{2} S\frac{1}{2}$   $P\frac{1}{2} S\frac{1}{2}$   $P\frac{1}{2} S\frac{1}{2}$   
Material of Crank shaft STEEL Identification Mark on Do. 2161 Material of Thrust shaft Steel Identification Mark on Do. 6805N  
Material of Tunnel shafts Steel Identification Marks on Do. 6805N Material of Screw shafts Steel Identification Marks on Do. 6805N  
Material of Steam Pipes S.D. STEEL Test pressure 540 lbs.

Is an installation fitted for burning oil fuel *Yes*

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 *S.S. BRITISH AMBASSADOR.*

General Remarks

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

*The engines & boiler of this vessel have been built under special survey & the materials & workmanship are good. On completion they were examined while running full power trials at sea & found satisfactory. The machinery throughout is now in good & efficient condition & eligible in my opinion to have the record LMC-12-24 marked in Red in the Builder's Register Book also fitted for oil fuel 12-24 F.P. above 150°F. & the requirements of section 49 of the Rules fully complied with.*

It is submitted that this vessel is eligible for THE RECORD. + LMC 12-24. FD. CL.

Fitted for oil fuel 12-24, FP above 150°F.

The amount of Entry Fee ... £ 6-0-0  
Special ... £ 1047-0  
Donkey Boiler Fee ... £ :  
Travelling Expenses (if any) £ :

When applied for, 4 DEC 1924

When received, 10/12/24

Committee's Minute

TUES. 9 DEC 1924

Assigned

*+ Lmc 12.24 FD. CL.  
Fitted for oil fuel 12.24 FP above 150°F*

2 CERTIFICATES WRITTEN.

Engineer Surveyor to Lloyd's Register of Shipping.



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