

Rpt. 4.

REPORT ON MACHINERY.

No. 50885

Received at London Office 11th June 1920

Date of writing Report 10

When handed in at Local Office 10

Port of LIVERPOOL

No. in Survey held at
Reg. Book.

Lytham

Date, First Survey Oct 7th 1919Last Survey June 19th 1920

1920

on the

S.S. 'T. P. Telling'

(Number of Visits 15)

Tons

Gross 456

Net 169

Master

N. Conn

Built at

Saltney, Chester

By whom built

J. Brighton & Co.

When built

1920

Engines made at

Lytham

By whom made

Lytham

when made

1920

Boilers made at

Birkenhead

By whom made

Messrs. Cammell, Laird & Co.

when made

1920

Registered Horse Power

✓

Owners

J. H. Winks (Australia) Ltd

Port belonging to

Liverpool

Nom. Horse Power as per Section 28

88

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

no

ENGINES, &c.—Description of Engines

Vertical Triple

No. of Cylinders 3

No. of Cranks 3

Dia. of Cylinders

14, 22, 38

Length of Stroke

24

Revs. per minute

114

Dia. of Screw shaft

as per rule 7 7/8"

Material of

M.S.

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

✓

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

✓

If two

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

✓

Length of stern bush

3'-2"

Dia. of Tunnel shaft

as per rule 6'-8"

Dia. of Crank shaft journals

as per rule 7'-2"

Dia. of Crank pin

7 1/4"

Size of Crank webs

11 x 3 1/4"

Dia. of thrust shaft under

collars

7 1/4"

Dia. of screw

8'-6"

Pitch of Screw

11'-3"

No. of Blades

4

State whether moveable

yes

Total surface

260'

No. of Feed pumps

2

Diameter of ditto

2 1/2"

Stroke

12"

Can one be overhauled while the other is at work

yes

No. of Bilge pumps

2

Diameter of ditto

2 1/2"

Stroke

12"

Can one be overhauled while the other is at work

yes

No. of Donkey Engines

2

Sizes of Pumps

5 1/2" x 6 feet; 6 1/2" x 6 feet

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

In Engine Room

one 2 1/4", two 2 1/2"

In Holds, &c.

three 2 1/2", 2 1/2" for hold

J.P. 1-3 1/2" A.P. 2 1/2"

No. of Bilge Injections

1

size

3 1/2"

Connected to condenser, or circulating pump

yes

Is a separate Donkey Suction fitted in Engine room & size

yes

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 & Cocks

yes

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

yes

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

none

Is it fitted with a watertight door

✓

worked from

✓

BOILERS, &c.—(Letter for record (S.)

Manufacturers of Steel

See Report herewith

Total Heating Surface of Boilers

14900 sq ft

Is Forced Draft fitted

no

No. and Description of Boilers

One Cylindrical Multitubular

Working Pressure

180 lbs

Tested by hydraulic pressure to

240 lbs

Date of test

15.5.20

No. of Certificate

2124

Can each boiler be worked separately

✓

Area of fire grate in each boiler

48 sq ft

No. and Description of Safety Valves to

each boiler

2 Disc & Spring

Area of each valve

14 sq ft

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

2'-6"

Mean dia. of boilers

Length

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. and Description of Furnaces in each boiler

Material

Outside diameter

Length of plain part

top

Thickness of plates

crown

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber plates: Material

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Top

If stays are fitted with nuts or riveted heads

Working pressure by rules

Material of stays

Area at smallest part

Area supported by each stay

Working pressure by rules

End plates in steam space:

Material

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Material of stays

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

002179-002126-0159

IS A DONKEY BOILER FITTED?

no

If so, is a report now forwarded? ☒

SPARE GEAR.

State the articles supplied:—

2 Connecting Rod top ends & bottom end bolts. 2 M. bearing bolts
1 set of coupling bolts. 1 set of feed & bilge pump valves. One set each of top & bottom end braces
link braces. piston rings. 1 safety valve spring. 1 check valve. 12 Condenser tubes, assortment
of bolts & nuts &c.

The foregoing is a correct description,

PER PRO

THE LYTHAM SHIPBUILDING
& ENGINEERING CO. LTD

Manufacturer.

Dates
of Survey
while
building

During progress of
work in shops --
During erection on
board vessel --
Total No. of visits

1919

Oct 7. 18. Dec 9. 19.

1920

Jan 14. 27 Feb 20 Mar 4. 12 Apr 14. 19 May 18. 26 June 8. 19.

Is the approved plan of main boiler forwarded herewith

yes

Dates of Examination of principal parts—

Cylinders 18.11.19 Slides 5.5.20 Covers 18.11.19 Pistons 18.11.19 Rods 18.11.19

Connecting rods 18.11.19 Crank shaft 7.10.19 Thrust shaft 11.3.19 Tunnel shafts 27.1.20 Propeller 20.2.20

Stern tube 20.2.20 Steam pipes tested 31.6.20 Engine and boiler seatings 19.4.20 Engines holding down bolts 26.3.20

Completion of pumping arrangements 19.6.20 Boilers fixed 8.4.20 Engines tried under steam 19.6.20

Completion of fitting sea connections 12.3.20 Stern tube 4.3.20 Screw shaft and propeller 12.3.20

Main boiler safety valves adjusted 19.6.20 Thickness of adjusting washers P. 7. S. 3.

Material of Crank shaft steel Identification Mark on Do. 1194 Material of Thrust shaft Identification Mark on Do. 1429

Material of Tunnel shafts Identification Marks on Do. Material of Screw shafts steel Identification Marks on Do. 1342

Material of Steam Pipes S.D. Copper Test pressure 360 lb

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 40 If so, state name of vessel S.P. 'Glenageary'

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

This vessel's machinery has been constructed under special survey. The materials and workmanship is of good description & in accordance with the Rules. On completion it was securely fitted on board and satisfactorily tried under working conditions at sea.

This machinery is, in our opinion, eligible to be classed and to have record L.M.C. 6.20. 1 SB. 180 lbs. sp. f.

95-48. H.S. 1490.

It is submitted that
this vessel is eligible for
THE RECORD. + L.M.C. 6.20

1/7/20
J.M. JORD

The amount of Entry Fee ... £ 1 : 0 :
Special ... £ 8 : 16 :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ 3 : 073 :

When applied for,

28 JUN 1920

When received,

3/8/20

S. Townsend. A. J. Bassett
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

Assigned

+ L.M.C. 6.20
When fee is paid
29.6.20 1177



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Foundation