

# REPORT ON MACHINERY.

No. 80399

Port of London

Received at London Office

Survey held at Newbury

Date, first Survey June 25<sup>th</sup> Last Survey Nov 1<sup>st</sup> 1917

(Number of Visits 6)

on the Engines No. 2366

Tons { Gross  
Net  
When built

Built at

By whom built

made at Newbury

By whom made Plenty & Son Ltd.

when made

made at

By whom made

when made

Horse Power

Owners

Port belonging to

se Power as per Section 28 72

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

ES, &c.—Description of Engines Triple Surface Condensing

No. of Cylinders 3

No. of Cranks 3

Cylinders 13"-22"-34"

Length of Stroke 22½"

Revs. per minute

Dia. of Screw shaft

as per rule 7.35"

as fitted 7.35"

Material of Steel

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

Is the after end of the liner made water tight

propeller boss ☒

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

If the liner does not fit tightly at the part

the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

If two

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

Length of stern bush 2'-5½"

tunnel shaft

as per rule 6.39"

as fitted 6.39"

Dia. of Crank shaft journals

as per rule 6.7"

as fitted 6.7"

Dia. of Crank pin 6¾"

Size of Crank webs 12¼" x 4½"

Dia. of thrust shaft under

6¾"

Dia. of screw 8-3"

Pitch of screw 9'-6"

No. of blades 4

State whether moveable yes

Total surface 26 sq. ft.

Feed pumps one

Diameter of ditto 3"

Stroke 10"

Can one be overhauled while the other is at work ☒

Bilge pumps one

Diameter of ditto 3"

Stroke 10"

Can one be overhauled while the other is at work ☒

Donkey Engines

Sizes of Pumps

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

ne Room

In Holds, &c.

ge injections

sizes

Connected to condenser, or to circulating pump

Is a separate donkey suction fitted in Engine room & size

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

connections with the sea direct on the skin of the ship Yes

Are they Valves or Cocks Both

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

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

pipes are carried through the bunkers Hold suction

How are they protected

pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times Yes

bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges Yes

stern tube, propeller, screw shaft, and all connections examined in dry dock

Is the screw shaft tunnel watertight ☒

tted with a watertight door ☒

worked from ☒

ERS, &c.—No. of Certificate

(Letter for record

Total Heating Surface of Boilers 1271 ☒ Is forced draft fitted

d Description of Boilers

Working Pressure 180 lbs Tested by hydraulic pressure to

test Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of safety valves to

Area of each valve

Pressure to which they are adjusted

Are they fitted with easing gear

distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers

Length

Material of shell plates

Range of tensile strength

Are they welded or flanged

Descrip. of riveting: cir. seams

long. seams

er of rivet holes in long. seams

Pitch of rivets

Lap of plates or width of butt straps

stages of strength of longitudinal joint

rivets

Working pressure of shell by rules

Size of manhole in shell

plate

Working pressure of shell by rules

Size of manhole in shell

compensating ring

No. and Description of Furnaces in each boiler

Material

Outside diameter

plain part

top

Thickness of plates

crown

Description of longitudinal joint

No. of strengthening rings

bottom

bottom

Thickness of plates

bottom

Description of longitudinal joint

No. of strengthening rings

pressure of furnace by the rules

Combustion chamber plates: Material

Thickness: Sides

Back

Top

Bottom

stays to ditto: Sides

Back

Top

If stays are fitted with nuts or riveted heads

Working pressure by rules

End plates in steam space:

of stays

Diameter 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

at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

Material of Lower back plate

Thickness

Greatest pitch of stays

Working pressure of plate by rules

of tubes

Pitch of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

cross wide water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and

of girder at centre

Length as per rule

Distance apart

Number and pitch of Stays in each

pressure by rules

Superheater or Steam chest; how connected to boiler

Can the superheater be shut off and the boiler worked

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

ed with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

© 2021

Lloyd's Register

Foundation

557-0068

DONKEY BOILER— No. Description  
Made at By whom made Date of test Where fixed  
Working pressure tested by hydraulic pressure to No. of Certificate Fire grate area Description of safety valves  
No. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main  
enter the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Rang  
strength Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of ri  
Lap of plating Per centage of strength of joint Rivets Thickness of shell crown plates Radius of do. No. of Stays to d  
Plates Dia. of stays. Diameter of furnace Top Bottom Length of furnace Thickness of furnace plates De  
joint Thickness of furnace crown plates Stayed by Working pressure of shell by rule  
Working pressure of furnace by rules Diameter of uptake Thickness of uptake plates Thickness of water tubes

SPARE GEAR. State the articles supplied :—

The foregoing is a correct description,

Manufacturer.

Dates During progress of  
of Survey work in shops - -  
while During erection on  
building board vessel - -  
Total No. of visits

Is the approved plan of main boiler forwarded herewith

“ “ “ donkey “ “ “

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

Certificate (if required) to be sent to  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

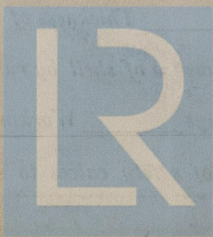
The amount of Entry Fee..	£	:	:	When applied for,
Special .. .. .	£	:	:	.....19.....
Donkey Boiler Fee .. .. .	£	:	:	When received,
Travelling Expenses (if any) £	:	:	:	.....19.....

Committee's Minute

Assigned

FEB 18 MAR 1918

Engineer Surveyor to Lloyd's Register of British & Foreign S



© 2021

Lloyd's Register  
Foundation