

## REPORT ON MACHINERY.

No.

Received at London Office

Date of writing Report

19

When handed in at Local Office

19

Port of

No. in Survey held at

Date, First Survey

Last Survey

19

Reg. Book.

(Number of Visits)

Tons

Gross

Net

Master

Built at

By whom built

When built

Engines made at

By whom made

when made

Boilers made at

By whom made

when made

Registered Horse Power

Owners

Port belonging to

Nom. Horse Power as per Section 28

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

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

No. of Cylinders

No. of Cranks

Dia. of Cylinders

Length of Stroke

Revs. per minute

Dia. of Screw shaft

as per rule

as fitted

Material of screw shaft

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

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

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

Dia. of Tunnel shaft

as per rule

Dia. of Crank shaft journals

as per rule

Dia. of Crank pin

Size of Crank webs

Dia. of thrust shaft under

collars

Dia. of screw

Pitch of Screw

No. of Blades

State whether moveable

Total surface

No. of Feed pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

No. of Bilge pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

No. of Donkey Engines

Sizes of Pumps

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

Engine Room

In Holds, &amp;c.

No. of Bilge Injections

sizes

Connected to condenser, or to circulating pump

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

Are all the bilge suction pipes fitted with roses

Are the roses in Engine room always accessible

Are the sluices on Engine room bulkheads always accessible

Are all connections with the sea direct on the skin of the ship

Are they Valves or Cocks

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates

Are the Discharge Pipes above or below the deep water line

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel

Are the Blow-Off Cocks fitted with a spigot and brass covering plate

What pipes are carried through the bunkers

How are they protected

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

MANUFACTURERS, &amp;c.—(Letter for record)

Manufacturers of Steel

Huttenwerft der Röhre Rade

Total Heating Surface of Boilers

3/95

Is Forced Draft fitted

no

No. and Description of Boilers

2 SE multibubler

Working Pressure

199 lb

Tested by hydraulic pressure to

200

Date of test

26-3-21

No. of Certificate

734

Can each boiler be worked separately

yes

Area of fire grate in each boiler

45 sq

No. and Description of Safety Valves to

boiler

2 Spring loaded

Area of each valve

4.432"

Pressure to which they are adjusted

200

Are they fitted with easing gear

Least distance between boilers or uptakes and bunkers or woodwork

✓

Mean dia. of boilers

12-1 3/4

Length

10-4 3/4

Material of shell plates

8 1/2

Thickness

1/8

Range of tensile strength

20-32

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

D lap

seams

2 B tubs

Diameter of rivet holes in long. seams

1 3/16

Pitch of rivets

7 1/16

Lap of plates or width of butt straps

10 1/8

Percentages of strength of longitudinal joint

rivets 97

plate 85

Working pressure of shell by rules

200

Size of manhole in shell

19 1/2 x 16

of compensating ring

6 x 1 1/8

No. and Description of Furnaces in each boiler

2 Horin

Material

8 1/2

Outside diameter

47 1/4

th of plain part

top

bottom

Thickness of plates

crown 1/16

bottom 1/16

Description of longitudinal joint

Welder

No. of strengthening rings

✓

Working pressure of furnace by the rules

240

Combustion chamber plates: Material

8 1/2

Thickness: Sides

5/8

Back

2 1/2

Top

5/8

Bottom

3 1/2

of stays to ditto: Sides

7

Back

6 1/16

Top

7 x 8

If stays are fitted with nuts or riveted heads

Poth

Working pressure by rules

204

Material of stays

8 1/2

Area at smallest part

1.40

Area supported by each stay

4.9

Working pressure by rules

240

End plates in steam space:

Material

8 1/2

Thickness

3 1/4

Pitch of stays

16 3/4 x 7 1/4

How are stays secured

Double nut

Working pressure by rules

200

Material of stays

8 1/2

at smallest part

5.94"

Area supported by each stay

2.09

Working pressure by rules

223

Material of Front plates at bottom

8 1/2

Thickness

7/8

Material of Lower back plate

8 1/2

Thickness

3/4

Greatest pitch of stays

14 1/8

Working pressure of plate by rules

300

Pitch of tubes

3 1/4

Pitch of tubes

4 1/4 x 4 7/8

Material of tube plates

8 1/2

Thickness: Front

7/8

Back

2 1/2

Mean pitch of stays

8 1/2

across wide water spaces

14 1/2

Working pressures by rules

270

Girders to Chamber tops: Material

8 1/2

Depth and

Distance apart

3 x 7

Weight of girder at centre

2 x 7 7/8 x 3/4

Length as per rule

27

Distance apart

8

Number and pitch of stays in each

3 x 7

Working pressure by rules

260

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

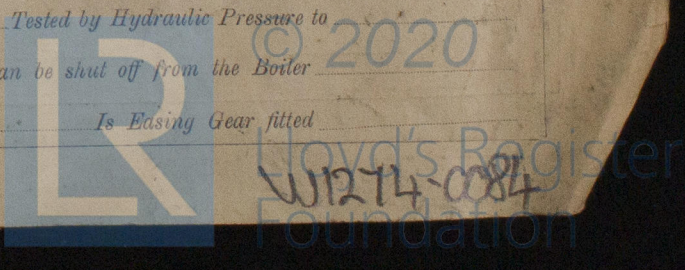
Date of Test

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





IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

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

Is the approved plan of main boiler forwarded herewith

“ “ “ donkey “ “ “

Dates of Examination of principal parts—Cylinders	Slides	Covers	Pistons	Rods
Connecting rods	Crank shaft	Thrust shaft	Tunnel shafts	Screw shaft
Propeller				
Stern tube	Steam pipes tested	Engine and boiler seatings	Engines holding down bolts	
Completion of pumping arrangements	Boilers fixed	Engines tried under steam		
Completion of fitting sea connections	Stern tube	Screw shaft and propeller		
Main boiler safety valves adjusted	Thickness of adjusting washers			
Material of Crank shaft	Identification Mark on Do.	Material of Thrust shaft	Identification Mark on Do.	
Material of Tunnel shafts	Identification Marks on Do.	Material of Screw shafts	Identification Marks on Do.	
Material of Steam Pipes		Test pressure		

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

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

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

See J.E. Rpt. Vol. 11879



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Foundation