

## REPORT ON MACHINERY.

No. 82141

Date of writing Report 25/9/19 When handed in at Local Office 25/9/19 Port of London  
No. in Survey held at Lucemboro Date, First Survey 8 Last Survey Sept 17<sup>th</sup> 1919  
Reg. Book. on the Concrete Barge "Custody Re" P. 88 (Number of Visits) 1  
Master Lucemboro Built at Lucemboro By whom built Lucemboro SBC Tons { Gross 1919 Net 1919 When built 1919  
Engines made at Lucemboro By whom made Lucemboro when made 1919  
Boilers made at Kitchin By whom made W. H. Spencer & Co when made 1919  
Registered Horse Power 1 Owners H.M. Government Port belonging to Lucemboro  
Nom. Horse Power as per Section 28 1 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

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

None

No. of Cylinders

No. of Cranks

Dia. of Cylinders 1 Length of Stroke 1 Revs. per minute 1 Dia. of Screw shaft 1 as per rule 1 as fitted 1 Material of screw shaft 1  
Is the screw shaft fitted with a continuous liner the whole length of the stern tube 1 Is the after end of the liner made water tight in the propeller boss 1 If the liner is in more than one length are the joints burned 1 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 1 If two liners are fitted, is the shaft lapped or protected between the liners 1 Length of stern bush 1  
Dia. of Tunnel shaft 1 as per rule 1 as fitted 1 Dia. of Crank shaft journals 1 as per rule 1 as fitted 1 Dia. of Crank pin 1 Size of Crank webs 1 Dia. of thrust shaft under collars 1 Dia. of screw 1 Pitch of Screw 1 No. of Blades 1 State whether moveable 1 Total surface 1  
No. of Feed pumps 1 Diameter of ditto 1 Stroke 1 Can one be overhauled while the other is at work 1 2 Injector  
No. of Bilge pumps 1 Diameter of ditto 1 Stroke 1 Can one be overhauled while the other is at work 1  
No. of Donkey Engines 1 Sizes of Pumps 5 1/2 x 4 3/4 x 5 1/2 No. and size of Suctions connected to both Bilge and Donkey pumps In Engine Room 1 In Holds, &c. 1 - 2 1/2" each hold  
also 1 - 2 1/2" each peak

No. of Bilge Injections 1 sizes 1 Connected to condenser, or to circulating pump 1 Is a separate Donkey Suction fitted in Engine room & size 1  
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 1  
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 For suction How are they protected Wood casing  
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 1 Is it fitted with a watertight door 1 worked from 1

## BOILERS, &amp;c.—(Letter for record ) Manufacturers of Steel

Total Heating Surface of Boilers 1 Is Forced Draft fitted 1 No. and Description of Boilers 1  
Working Pressure 1 Tested by hydraulic pressure to 1 Date of test 1 No. of Certificate 1  
Can each boiler be worked separately 1 Area of fire grate in each boiler 1 No. and Description of Safety Valves to each boiler 1 Area of each valve 1 Pressure to which they are adjusted 1 Are they fitted with easing gear 1  
Smallest distance between boilers or uptakes and bunkers or woodwork 1 Mean dia. of boilers 1 Length 1 Material of shell plates 1  
Thickness 1 Range of tensile strength 1 Are the shell plates welded or flanged 1 Descrip. of riveting: cir. seams 1  
long. seams 1 Diameter of rivet holes in long. seams 1 Pitch of rivets 1 Lap of plates or width of butt straps 1  
Per centages of strength of longitudinal joint 1 rivets 1 Working pressure of shell by rules 1 Size of manhole in shell 1  
Size of compensating ring 1 No. and Description of Furnaces in each boiler 1 Material 1 Outside diameter 1  
Length of plain part 1 top 1 bottom 1 Thickness of plates 1 crown 1 bottom 1 Description of longitudinal joint 1 No. of strengthening rings 1  
Working pressure of furnace by the rules 1 Combustion chamber plates: Material 1 Thickness: Sides 1 Back 1 Top 1 Bottom 1  
Pitch of stays to ditto: Sides 1 Back 1 Top 1 If stays are fitted with nuts or riveted heads 1 Working pressure by rules 1  
Material of stays 1 Area at smallest part 1 Area supported by each stay 1 Working pressure by rules 1 End plates in steam space: 1  
Material 1 Thickness 1 Pitch of stays 1 How are stays secured 1 Working pressure by rules 1 Material of stays 1  
Area at smallest part 1 Area supported by each stay 1 Working pressure by rules 1 Material of Front plates at bottom 1  
Thickness 1 Material of Lower back plate 1 Thickness 1 Greatest pitch of stays 1 Working pressure of plate by rules 1  
Diameter of tubes 1 Pitch of tubes 1 Material of tube plates 1 Thickness: Front 1 Back 1 Mean pitch of stays 1  
Pitch across wide water spaces 1 Working pressures by rules 1 Girders to Chamber tops: Material 1 Depth and thickness of girder at centre 1 Length as per rule 1 Distance apart 1 Number and pitch of stays in each 1  
Working pressure by rules 1 Steam dome: description of joint to shell 1 % of strength of joint 1  
Diameter 1 Thickness of shell plates 1 Material 1 Description of longitudinal joint 1 Diam. of rivet holes 1  
Pitch of rivets 1 Working pressure of shell by rules 1 Crown plates 1 Thickness 1 How stayed 1

## 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

W 702 - 0175



IS A DONKEY BOILER FITTED?

Yes

If so, is a report now forwarded?

Yes

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building  
During progress of work in shops -- 1919: Apr 1. May 7.  
During erection on board vessel --- 1919: Sep 17  
Total No. of visits 3 (see also Rpt 56)  
for 2 visits during construction.

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

17/9/19

Boilers fixed

17/9/19

Engines tried under steam

Completion of fitting sea connections

17/9/19

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

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

If so, state name of vessel

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

This Donkey Boiler has been securely fitted on board, examined under steam & safety valves adjusted. The bilge donkey, fuel donkey & injector have been tried & found satisfactory.

This vessel is in my opinion eligible to have notation +DB 9.19 in the Register Book

It is submitted that this vessel is eligible for THE RECORD + D.B. 9.19. 150lb.

The amount of Entry Fee ... £

Special ... £

Donkey Boiler Fee ... £ 3 : 3

Travelling Expenses (if any) £

When applied for,

27/9/19

When received,

16/4/19

H. Sander-Smith

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 30 SEP. 1919

Assigned

+ DB 9.19



© 2021

Lloyd's Register Foundation