

REPORT ON MACHINERY.

WED. 2-JUL 1919

No. 17481.

Received at London Office. WED. 18 JUN. 1919

Date of writing Report 20th Jan. 1919 When handed in at Local Office 30th Jan. 1919 Port of Greenock
 No. in Survey held at Port Glasgow Date, First Survey 8th Nov. 1918 Last Survey 28th Jan. 1919
 Reg. Book. on the Steel S.S. "Imperial" (NOMA) (Number of Visits 5)
 Master C. H. Butler Built at Port Glasgow By whom built Robert Duncan & Co. Ltd. Tons { Gross 5552.76
 Engines made at Glasgow By whom made David Rowan & Co. Ltd. when made { Net 3476.88
 Boilers made at _____ By whom made _____ when made {
 Registered Horse Power _____ Owners The Imperial Japanese Navy Port belonging to Tokyo
 Nom. Horse Power as per Section 28 _____ Is Refrigerating Machinery fitted for cargo purposes _____ Is Electric Light fitted _____

ENGINES, &c.—Description of Engines

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 as fitted	Dia. of Crank shaft journals as per rule as fitted	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		
In Engine Room		In Holds, &c.		

No. of Bilge Injections _____ sizes _____ Connected to condenser, or to circulating pump _____ Is a separate Donkey Suction fitted in Engine room & 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 _____

OILERS, &c.—(Letter for record) Manufacturers of Steel

Total Heating Surface of Boilers	Is Forced Draft fitted	No. and Description of Boilers
Working Pressure	Tested by hydraulic pressure to	Date of test
Can each boiler be worked separately	Area of fire grate in each boiler	No. of Certificate
Each boiler	Area of each valve	Pressure to which they are adjusted
Smallest distance between boilers or uptakes and bunkers or woodwork	Mean dia. of boilers	Length
Thickness	Range of tensile strength	Are the shell plates welded or flanged
Long. seams	Diameter of rivet holes in long. seams	Pitch of rivets
Percentage of strength of longitudinal joint	Working pressure of shell by rules	Size of manhole in shell
Size of compensating ring	No. and Description of Furnaces in each boiler	Material
Length of plain part	Thickness of plates	Description of longitudinal joint
Working pressure of furnace by the rules	Combustion chamber plates: Material	Thickness: Sides
Thickness of stays to ditto: Sides	Back	Top
Material of stays	Area at smallest part	Area supported by each stay
Material	Thickness	Pitch of stays
Area at smallest part	Area supported by each stay	Working pressure by rules
Thickness	Material of Lower back plate	Thickness
Diameter of tubes	Pitch of tubes	Material of tube plates
Thickness: Front	Back	Mean pitch of stays
Working pressures by rules	Girders to Chamber tops: Material	Depth and
Thickness of girder at centre	Length as per rule	Distance apart
Working pressure by rules	Steam dome: description of joint to shell	% of strength of joint
Thickness of shell plates	Material	Description of longitudinal joint
Working pressure of shell by rules	Crown plates	Thickness
How stayed	Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler	Is Easing Gear fitted

SUPERHEATER. Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

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

4918). Nov. 8. Dec. 18. (1919). Jan. 8. 24. 28:—

5.

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 27/1/19.

Engines holding down bolts

Completion of pumping arrangements

Boilers fixed

Engines tried under steam

Completion of fitting sea connections 28/1/19.

Stern tube 28/1/19.

Screw shaft and propeller 28/1/19.

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.)

Vessel taken to Glasgow for machining and
Boilers to be fitted.

RETAIN

The amount of Entry Fee ...

Special ...

Donkey Boiler Fee ...

Travelling Expenses (if any) £

When applied for.

19

When received.

19

Graham Robertson
Engineer Surveyor to Lloyd's Register of Shipping.

TUE 1-JUL 1919

Committee's Minute

GLASGOW

7 JUL 1919

Assigned

See Glasgow Report 38840



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Foundation