

REPORT ON MACHINERY.

No. 17562.

Date of writing Report 29th Dec 1919 When handed in at Local Office 29th Dec 1919 Port of Greenock Received at London Office 29th Dec 1919
 No. in Survey held at Port Glasgow Date, First Survey 6th August, 1919, Last Survey 29th Dec 1919
 Reg. Book. on the Old Hammer "War Hindoo" (Number of Visits 5)
 Master J. C. Dick Built at Port Glasgow By whom built W Hamilton & Co Tons } Gross 5564.96
 Engines made at Glasgow By whom made S Brown & Co when made 1919 Net 3337.02
 Boilers made at Glasgow By whom made S Brown & Co when made 1919
 Registered Horse Power _____ Owners The Shipping Controller Port belonging to London
 Nom. Horse Power as per Section 28 _____ Is Refrigerating Machinery fitted for cargo purposes _____ Is Electric Light fitted _____

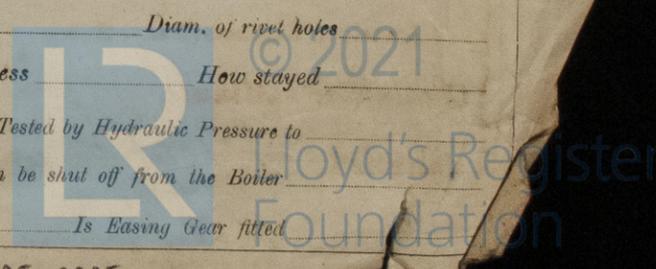
ENGINES, &c.—Description of Engines

Dia. of Cylinders	Length of Stroke	Revs. per minute	No. of Cylinders	No. of Cranks
Is the screw shaft fitted with a continuous liner the whole length of the stern tube			Dia. of Screw shaft as per rule	Material of screw shaft
in the propeller boss			as fitted	
If the liner is in more than one length are the joints burned			Is the after end of the liner made water tight	
between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive			If the liner does not fit tightly at the part	
liners are fitted, is the shaft lapped or protected between the liners			If two	
Dia. of Tunnel shaft as per rule	Dia. of Crank shaft journals as per rule	Dia. of Crank pin	Size of Crank webs	Length of stern bush
as fitted	as fitted			
Dia. of screw	Pitch of Screw	No. of Blades	State whether moveable	Dia. of thrust shaft under collars
No. of Feed pumps	Diameter of ditto	Stroke	Total surface	
			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 <u>Yes</u>			
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		

BOILERS, &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	No. of Certificate	
Can each boiler be worked separately	Area of fire grate in each boiler	No. and Description of Safety Valves to each boiler		
Area of each valve	Pressure to which they are adjusted	Are they fitted with easing gear		
Smallest distance between boilers or uptakes and bunkers or woodwork	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	plate	No. and Description of Furnaces in each boiler		
Length of plain part	top	Thickness of plates	bottom	Description of longitudinal joint
Working pressure of furnace by the rules	Combustion chamber plates: Material	Thickness: Sides	Back	Top
Pitch of stays to ditto: Sides	Back	Top	If stays are fitted with nuts or riveted heads	
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
Area at smallest part	Area supported by each stay	Working pressure by rules	Material of stays	
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
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 _____



If not, state whether, and when, one will be sent?

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 -- (1919). Aug. 6. Sept. 10. 19. 22. 29:--
During erection on board vessel ---
Total No. of visits 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 Engines holding down bolts
Completion of pumping arrangements Boilers fixed Engines tried under steam
Completion of fitting sea connections 19/9/19 Stern tube 19/9/19 Screw shaft and propeller 29/9/19
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.)

This vessel proceeds to Glasgow where the boiler and machinery will be fitted.

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

James Jones
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 17 NOV 1919
Assigned See Gl. Rpt. No. 39325



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