

Rpt. 4.

## REPORT ON MACHINERY.

No. 17562.

Date of writing Report 29 Dec 1919 When handed in at Local Office 29 Dec 1919 Port of Greenock Received at London Office  
No. in Survey held at Port Glasgow Date, First Survey 6<sup>th</sup> August, 1919, Last Survey 29 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, &amp;c.—Description of Engines

Dia. of Cylinders	Length of Stroke	Revs. per minute	Dia. of Screw shaft	No. of Cylinders	No. of Cranks
Is the screw shaft fitted with a continuous liner the whole length of the stern tube			as per rule	Material of	
in the propeller boss			as fitted	screw shaft	
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	Dia. of Crank shaft journals	Dia. of Crank pin	Size of Crank webs	Length of stern bush	
as per rule	as per rule				
as fitted	as fitted				
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 Yes  
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, &amp;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	No. and Description of Safety Valves to
Smallest distance between boilers or uptakes and bunkers or woodwork	Pressure to which they are adjusted	Are they fitted with easing gear
Thickness	Range of tensile strength	Are the shell plates welded or flanged
long. seams	Diameter of rivet holes in long. seams	Descrip. of riveting: cir. seams
Per centages of strength of longitudinal joint	Working pressure of shell by rules	Lap of plates or width of butt straps
Size of compensating ring	No. and Description of Furnaces in each boiler	Size of manhole in shell
Length of plain part	Thickness of plates	Material
Working pressure of furnace by the rules	Combustion chamber plates: Material	Outside diameter
Pitch 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
Pitch across wide water spaces	Working pressures by rules	Thickness: Front
thickness of girder at centre	Length as per rule	Back
Working pressure by rules	Steam dome: description of joint to shell	Mean pitch of stays
Diameter	Thickness of shell plates	Material
Pitch of rivets	Working pressure of shell by rules	Thickness
SUPERHEATER. Type		
Date of Test	Date of Approval of Plan	Tested by Hydraulic Pressure to
Diameter of Safety Valve	Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler	Is Easing Gear fitted
	Pressure to which each is adjusted	



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

(1919). Aug. 6. Sept. 10. 19. 22. 29:—

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

Committee's Minute GLASGOW 11 NOV 1919

Assigned See Gl. Rpt. No. 39325

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



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Foundation