

REPORT ON MACHINERY.

Port of Greenock.

WED, 2 MAR 1898

Received at London Office 18

Survey held at Port Glasgow. Date, first Survey 18th Decr 1897 Last Survey 25th January 1898
(Number of Visits 13)

on the Screw Steamer "Craigowan." Tons { Gross
Net } When built 1898.

Built at Port Glasgow By whom built Rodger & Coy. when made 1898.

made at Glasgow By whom made Hall Brown, Buttery & Coy. when made 1898.

made at _____ By whom made _____ when made _____
Horse Power _____ Owners _____ Port belonging to Leith

Horse Power as per Section 28 _____ Is Electric Light fitted _____

ENGINES, &c.—Description of Engines

Description of Engines		No. of Cylinders	No. of Cranks
Number of Cylinders	Length of Stroke	Revolutions per minute	Diameter of Screw shaft as per rule as fitted
Diameter of Tunnel shaft as per rule as fitted	Diameter of Crank shaft journals	Diameter of Crank pin	Size of Crank webs
Pitch of screw	No. of blades	State whether moveable	Total surface
Diameter of ditto	Stroke	Can one be overhauled while the other is at work	
Diameter of ditto	Stroke	Can one be overhauled while the other is at work	
Sizes of Pumps	No. and size of Suctions connected to both Bilge and Donkey pumps		
In Holds, &c.			
Connected to condenser, or to circulating pump	Is a separate donkey suction fitted in Engine room & size		
Are the roses in Engine room always accessible	Are the sluices on Engine room bulkheads always accessible		
Are they Valves or Cocks <u>Both.</u>	Are the discharge pipes above or below the deep water line		
Are the blow off cocks fitted with a spigot and brass covering plate <u>yes</u>	How are they protected		
pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times			
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 <u>yes</u> <i>launched</i>			

BOILERS, &c.— (Letter for record _____) Total Heating Surface of Boilers _____ Is forced draft fitted _____

Description of Boilers	Working Pressure	Tested by hydraulic pressure to
Can each boiler be worked separately	Area of fire grate in each boiler	No. and Description of safety valves to
Area of each valve	Pressure to which they are adjusted	Are they fitted
Smallest distance between boilers or uptakes and bunkers or woodwork	Mean diameter of boilers	
Material of shell plates	Thickness	Description of riveting: circum. seams long. seams
Pitch of rivets	Lap of plates or width of butt straps	
Working pressure of shell by rules	Size of manhole in shell	
No. and Description of Furnaces in each boiler		
Material	Outside diameter	
Thickness of plates crown bottom	Description of longitudinal joint	
No. of strengthening rings		
Combustion chamber plates: Material	Thickness: Sides	Back Top Bottom
If stays are fitted with nuts or riveted heads		
Working pressure by rules	End plates in steam space:	
Diameter at smallest part	Area supported by each stay	Working pressure by rules
Material of stays	How are stays secured	
Working pressure by rules	Material of stays	
Area supported by each stay	Working pressure by rules	Material of Front plates at bottom
Material of Lower back plate	Thickness	Greatest pitch of stays
Working pressure of plate by rules	Material of tube plates	
Pitch of tubes	Thickness: Front	Back Mean pitch of stays
Working pressures by rules	Girders to Chamber tops: Material	
Depth and	Number and pitch of Stays in each	
Length as per rule	Distance apart	Superheater or Steam chest; how connected to boiler
Can the superheater be shut off and the boiler worked	Diameter	
Length	Thickness of shell plates	Material
Description of longitudinal joint	Diam. of rivet	
Working pressure of shell by rules	Diameter of flue	Material of flue plates
Thickness	How stayed	
Distance between rings	Working pressure by rules	End plates: Thickness
Area of safety valves to superheater	Are they fitted with casing gear	

DONKEY BOILER— Description

Made at _____ By whom made _____ When made _____ Where fitted _____
 Working pressure tested by hydraulic pressure to _____ No. of Certificate _____ Fire grate area _____ Description of safety valves _____
 No. of safety valves _____ Area of each _____ Pressure to which they are adjusted _____ If fitted with easing gear _____ If steam fitted to enter the donkey boiler _____
 Diameter of donkey boiler _____ Length _____ Material of shell plates _____
 Description of riveting long. seams _____ Diameter of rivet holes _____ Whether punched or drilled _____
 Lap of plating _____ Per centage of strength of joint _____ Rivets _____ Thickness of shell crown plates _____ Radius of do. _____ No. of stays _____
 Dia. of stays _____ Diameter of furnace Top _____ Bottom _____ Length of furnace _____ Thickness of furnace plates _____
 joint _____ Thickness of furnace crown plates _____ Stayed by _____ Working pressure of furnace by rules _____ Diameter of uptake _____ Thickness of uptake plates _____ Thickness of water tank _____

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops - - 1897 December 18. 20. 23. 27. 29. 31. 1898 Jan'y 8. 11. 12. 17. 21. 24. 25.
 { During erection on board vessel - -
 Total No. of visits 13.

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

Examined Stern frame boss bored. Stern tube for place. Screw shaft shipped. Propeller securely fastened on sea connections fitted on vessel's plating.

The above mentioned parts of machinery are now in place and the vessel has been towed to Glasgow to get engine fitted on board.

The amount of Entry Fee. . . £ : : When applied for,
 Special £ : :18.....
 Donkey Boiler Fee £ : : When received,
 Travelling Expenses (if any) £ : :18.....

Committee's Minute

TUES. 8 MAR 1898

Assigned

A. B. Heron
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping
 Greenock District



Lloyd's Register
 Foundation

Certificates (if required) to be sent to the Surveyors are requested not to write on or below the space for Committee's Minute.