

REPORT ON MACHINERY.

No. 13760
THUR 7 APR 1904

Port of Greenock

Received at London Office 19

No. in Survey held at Port Glasgow Date, first Survey 21st Sept^r Last Survey 8th Oct^r 1903
Reg. Book. (Number of Visits 4)

on the Screw Steamer "Ashmount" Tons ^{Gross} _{Net}

Master Built at Port Glasgow By whom built A. Rodger & Co When built 1903

Engines made at Glasgow By whom made A. Rodger & Co when made 1903

Boilers made at By whom made when made 1903

Registered Horse Power Owners Port belonging to

Nom. Horse Power as per Section 28 Is Refrigerating Machinery fitted 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 <u> </u>			Is the after end of the liner made water tight in the propeller boss <u> </u>	
If the liner is in more than one length are the joints burned <u> </u>			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 <u> </u>	
If two liners are fitted, is the shaft lapped or protected between the liners <u> </u>			Length of stern bush <u> </u>	
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 <u> </u>	
No. of Bilge pumps	Diameter of ditto	Stroke	Can one be overhauled while the other is at work <u> </u>	
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 <u> </u>	
Are all the bilge suction pipes fitted with roses <u> </u>		Are the roses in Engine room always accessible <u> </u>	Are the sluices on Engine room bulkheads always accessible <u> </u>	
Are all connections with the sea direct on the skin of the ship <u>Yes</u>		Are they Valves or Cocks <u>Both</u>		
Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates <u> </u>		Are the discharge pipes above or below the deep water line <u> </u>		
Are they each fitted with a discharge valve always accessible on the plating of the vessel <u> </u>		Are the blow off cocks fitted with a spigot and brass covering plate <u>Yes</u>		
What pipes are carried through the bunkers <u> </u>		How are they protected <u> </u>		
Are all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times <u> </u>				
Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges <u> </u>				
When were stern tube, propeller, screw shaft, and all connections examined in dry dock <u> </u>		Is the screw shaft tunnel watertight <u> </u>		
Is it fitted with a watertight door <u> </u>		worked from <u> </u>		

BOILERS, &c.—

(Letter for record) Total Heating Surface of Boilers Is forced draft fitted

No. and Description of Boilers	Working Pressure	Tested by hydraulic pressure to
Date of test <u> </u>	Can each boiler be worked separately <u> </u>	Area of fire grate in each boiler <u> </u>
each boiler <u> </u>	Area of each valve <u> </u>	Pressure to which they are adjusted <u> </u>
Smallest distance between boilers or uptakes and bunkers or woodwork <u> </u>	Mean dia. of boilers <u> </u>	Length <u> </u>
Thickness <u> </u>	Range of tensile strength <u> </u>	Are they welded or flanged <u> </u>
Diameter of rivet holes in long. seams <u> </u>	Pitch of rivets <u> </u>	Lap of plates or width of butt straps <u> </u>
Per centages of strength of longitudinal joint <u> </u>	Working pressure of shell by rules <u> </u>	Size of manhole in shell <u> </u>
Size of compensating ring <u> </u>	No. and Description of Furnaces in each boiler <u> </u>	Material <u> </u>
Length of plain part <u> </u>	Thickness of plates <u> </u>	Description of longitudinal joint <u> </u>
Working pressure of furnace by the rules <u> </u>	Combustion chamber plates: Material <u> </u>	Thickness: Sides <u> </u>
Pitch of stays to ditto: Sides <u> </u>	Back <u> </u>	Top <u> </u>
Material of stays <u> </u>	Diameter at smallest part <u> </u>	Area supported by each stay <u> </u>
Material <u> </u>	Thickness <u> </u>	Pitch of stays <u> </u>
Diameter at smallest part <u> </u>	Area supported by each stay <u> </u>	Working pressure by rules <u> </u>
Thickness <u> </u>	Material of Lower back plate <u> </u>	Thickness <u> </u>
Diameter of tubes <u> </u>	Pitch of tubes <u> </u>	Material of tube plates <u> </u>
Pitch across wide water spaces <u> </u>	Working pressures by rules <u> </u>	Girders to Chamber tops: Material <u> </u>
thickness of girder at centre <u> </u>	Length as per rule <u> </u>	Distance apart <u> </u>
Working pressure by rules <u> </u>	Superheater or Steam chest; how connected to boiler <u> </u>	Can the superheater be shut off and the boiler worked separately <u> </u>
holes <u> </u>	Diameter <u> </u>	Length <u> </u>
Pitch of rivets <u> </u>	Working pressure of shell by rules <u> </u>	Diameter of flue <u> </u>
If stiffened with rings <u> </u>	Distance between rings <u> </u>	Working pressure by rules <u> </u>
Working pressure of end plates <u> </u>	Area of safety valves to superheater <u> </u>	Are they fitted with easing gear <u> </u>

If not, state whether, and when, one will be sent? Is a Report also sent on the Hull of the Ship?



W 970-0150

DONKEY BOILER— No. _____ Description _____

Made at _____ By whom made _____ When made _____ Where fixed _____

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 from main boilers can enter the donkey boiler _____

Diap. of donkey boiler _____ Length _____ Material of shell plates _____ Thickness _____ Range of tensile strength _____

Descrip. of riveting long seams _____ Dia. of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____

Lap of plating _____ Per centage of strength of joint _____ Rivets _____ Thickness of shell crown plates _____ Radius of do. _____ No. of Stays to do. _____

Dia. of stays _____ Diameter of furnace Top _____ Bottom _____ Length of furnace _____ Thickness of furnace plates _____ Description of joint _____

Thickness of furnace crown plates _____ Stayed by _____ Working pressure of shell by rules _____

Working pressure of furnace by rules _____ Diameter of uptake _____ Thickness of uptake plates _____ Thickness of water tubes _____

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building

During progress of work in shops - -	}	1903. Sep 21. 23. 30. Oct 8.		
		During erection on board vessel - -	}	H.
		Total No. of s		

Is the approved plan of main boiler forwarded herewith

“ “ “ donkey “ “ “

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

The propeller, Stern tube and fastenings of sea cocks and valves were examined before the vessel was launched and found in good condition.

The vessel has proceeded to Glasgow where the Engines and Boilers will be fitted on board.

Certificate (if required) to be sent to
(The Surveys 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....

Wm. Austin
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute

Glasgow 26 OCT 1903

Assigned

Deferred for completion



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