

REPORT ON MACHINERY.

Received 16th December, 1885
Received at London Office

No. 9043

No. in Survey held at Glasgow & Greenock Date, first Survey 1st Sept 85 Last Survey 24th Nov 85
Reg. Book. G I "Maule" (Number of Visits 23) Tons

Master _____ Built at Port Glasgow By whom built Messrs J. Reid & Co When built 1885
Engines made at Greenock By whom made Messrs Kincaid & Co when made 1885
Boilers made at Glasgow By whom made H. Wallace & Co when made 1885
Registered Horse Power _____ Owners _____ Port belonging to _____

ENGINES, &c.—

Description of Engines _____
Diameter of Cylinders _____ Length of Stroke _____ No. of Rev. per minute _____ Point of Cut off, High Pressure _____ Low Pressure _____
Diameter of Screw shaft _____ Diam. of Tunnel shaft _____ Diam. of Crank shaft journals _____ Diam. of Crank pin _____ size of Crank webs _____
Diameter 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 _____
Where do they pump from _____
No. of Donkey Engines _____ Size of Pumps _____ Where do they pump from _____
Are all the bilge suction pipes fitted with roses _____ Are the roses always accessible _____ Are the sluices on Engine room bulkheads always accessible _____
No. of bilge injections _____ and sizes _____ Are they connected to condenser, or to circulating pump _____
How are the pumps worked _____
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 stowage 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 accessible at all times _____
Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilges _____
When were stern tube, propeller, screw shaft, and all connections examined in dry dock _____
Is the screw shaft tunnel watertight _____ and fitted with a sluice door _____ worked from _____

Please refer to accompanying

BOILERS, &c.—

Number of Boilers One Description Byl, Mult, single ended Whether Steel or Iron Steel
Working Pressure 100 lbs Tested by hydraulic pressure to 200 lbs Date of test Nov 16th 1885
Description of superheating apparatus or steam chest Vertical dome
Can each boiler be worked separately Can the superheater be shut off and the boiler worked separately
No. of square feet of fire grate surface in each boiler 33 Description of safety valves Direct spring No. to each boiler Two
Area of each valve 8.9 sq Are they fitted with easing gear yes No. of safety valves to superheater _____ area of each valve _____
Are they fitted with easing gear _____ Smallest distance between boilers and bunkers or woodwork 9" Diameter of boilers 10ft
Length of boilers 9' 3" description of riveting of shell long. seams Quad, riv, lap circum. seams dbl riv lap Thickness of shell plates 11/16"
Diameter of rivet holes 15/16" whether punched or drilled drilled pitch of rivets 4 3/8" Lap of plating 9 1/4"
Per centage of strength of longitudinal joint 49.4 & 44.2 at 3/32" thickness of plate working pressure of shell by rules 94 lbs at 44.2% size of manholes in shell 16 x 12"
Size of compensating rings _____ 5 x 1 1/2" No. of Furnaces in each boiler two
Outside diameter 36" length, top 6ft bottom 8ft thickness of plates 1/2" description of joint Sq. riv butt if riv _____
Greatest length between rings 6ft working pressure of furnace by the rules 103 lbs combustion chamber plating, thickness, sides 1/2" back _____
Pitch of stays to ditto, sides 8 1/2" x 8 1/2" back 8 1/2" x 8 1/2" top 8 1/2" x 4 1/2" If stays are fitted with nuts or riveted heads nuts work _____
rules 106 lbs Diameter of stays at smallest part 1 3/8" outer 1 1/2" working pressure of ditto by rules 104 lbs end plates in steam space, thickness _____
Pitch of stays to ditto 15 x 15" how stays are secured dbl nuts & washers working pressure by rules 105 lbs
smallest part 2" working pressure by rules 104 lbs Front plates at bottom, thickness 1/16"
Greatest pitch of stays 12" working pressure by rules 100 lbs Diameter of tubes 3 1/2 (6x) pitch of tubes _____
plates, front 3/4" back 3/4" how stayed stay tubes pitch of stays 2 1/4"
Diameter of Superheater or Steam chest 2' 11" length 3ft thickness of plates 1/16" description of longitudinal joint _____
Pitch of rivets 3 3/8" working pressure of shell by rules 160 lbs diameter of flue _____ thickness of plates _____
Distance between rings _____ working pressure by rules _____ end plates of superheater, or steam chest; thick _____
2" dia Superheater or steam chest; how connected to boiler _____

[Form No. 8-300-14/85—Examiner ink.] (State if Report is also sent on the Hull of the S.S.P.)



DONKEY BOILER— Description *Vertical with one cross tube*
 Made at *Glasgow* by whom made *Messrs H Wallace & Co* when made *1885* where fixed *Stokehole*
 Working pressure *80 lbs* tested by hydraulic pressure to *160 lbs* No. of Certificate *1643* fire grate area *80 feet* description of safety
 valves *Direct Spring* No. of safety valves *one* area of each *70"* if fitted with easing gear *yes* if steam from main boilers can
 enter the donkey boiler *no* diameter of donkey boiler *3' 10"* length *4' 8"* description of riveting *dbl riv lap*
 Thickness of shell plates *3/4"* diameter of rivet holes *13/16"* whether punched or drilled *drilled* pitch of rivets *3 3/4"* lap of plating *3 3/4"*
 per centage of strength of joint *75%* thickness of crown plates *9/16"* stayed by *3 - 2" stays*
 Diameter of furnace, top *2' 9"* bottom *3' 2"* length of furnace *3' 2"* thickness of plates *7/16"* description of joint *single riv lap*
 Thickness of furnace crown plates *2"* stayed by *as above* working pressure of shell by rules *122 lbs*
 Working pressure of furnace by rules *90 lbs* diameter of uptake *10"* thickness of plates *7/16"* thickness of water tubes *3/8"*

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,
H Wallace Manufacturer.

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

The above Boilers have been constructed under special survey, the material has been tested at the Steel works with satisfactory result, and the workmanship is good. They have now been forwarded to Greenock, where they are to be fitted on board of the vessel

Station of Survey
17/12/85

£ : : received by me,
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G. L. Hindmarsh
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

FRIDAY 18 DEC 1885



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