

# REPORT ON MACHINERY.

29482  
SATURDAY 17 MAY 1884

No. 29482

Received at London Office

No. in Survey held at Reg. Book.

Preston

Date, first Survey 14<sup>th</sup> May 83 Last Survey 24<sup>th</sup> March 1884

on the

P. S. Violet

Tons

Master Built at Preston By whom built W. Allsup Sons When built 1886

Engines made at Preston By whom made W. Allsup Sons when made 1884

Boilers made at Blackburn By whom made Gates when made 1884

Registered Horse Power 99 Owners Wallasey Local Board Port belonging to Liverpool

## ENGINES, &c.—

Description of Engines Diagonal, oscillating, surface condensing.

Diameter of Cylinders 2 of 38" Length of Stroke 60" No. of Rev. per minute 32 Point of Cut off, High Pressure .5 Low Pressure .5

Diameter of Screw shaft Diam. of Tunnel shaft Diam. of Crank shaft journals 12" Diam. of Crank pin 9 3/4" size of Crank webs 12 1/2" x 5 3/4"

Diameter of Paddle wheel 16.5 Pitch of screw No. of blades state whether moveable total surface

No. of Feed pumps 2 diameter of ditto 5" Stroke 9 1/2" Can one be overhauled while the other is at work Yes

No. of Bilge pumps 2 diameter of ditto 5" Stroke 9 1/2" Can one be overhauled while the other is at work Yes

Where do they pump from each compartment

No. of Donkey Engines 1 Size of Pumps 4" Where do they pump from each compartment

Sea and hot well to Boilers deck and overboard.

Are all the bilge suction pipes fitted with roses Yes Are the roses always accessible Yes Are the sluices on Engine room bulkheads always accessible Yes

No. of bilge injections 1 and sizes 3" Are they connected to condenser, or to circulating pump circulating

How are the pumps worked Air and feed pumps from an eccentric on p. shaft. Then from auxiliary engine

Are all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Valves and cocks

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes Are the discharge pipes above or below the deep water line above

Are they each fitted with a discharge valve always accessible on the plating of the vessel Yes Are the blow off cocks fitted with a spigot and brass covering plate Yes

What pipes are carried through the bunkers None How are they protected

Are all pipes, cocks, valves, and pumps in connection with the machinery accessible at all times Yes

Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilges Yes

When were stern tube, propeller, screw shaft, and all connections examined in dry dock at this time.

Is the screw shaft tunnel watertight and fitted with a sluice door worked from

## OILERS, &c.—

Number of Boilers Two Description Flat sided, dry bottom. Whether Steel or Iron Iron & steel furnaces.

Working Pressure 45 lbs. Tested by hydraulic pressure to 90 lbs. Date of test 1 Boiler tested 16-11-83 21-11-83.

Description of superheating apparatus or steam chest Cylindrical

Can each boiler be worked separately Yes Can the superheater be shut off and the boiler worked separately No

No. of square feet of fire grate surface in each boiler 60 Description of safety valves Spring No. to each boiler 2

Area of each valve 15.9 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 8" Breadth Diameter of boilers 12' 0"

Length of boilers 9' 0" description of riveting of shell long. seams Single R Cap circum. seams Single Rivet Cap Thickness of shell plates 1/2"

Diameter of rivet holes 3/4" whether punched or drilled punched pitch of rivets 2 1/4" Lap of plating 3"

Per centage of strength of longitudinal joint angle iron 11" pitch working pressure of shell by rules size of manholes in shell 16" x 12"

Size of compensating rings 7 x 5/8" No. of Furnaces in each boiler 4"

Outside diameter 2' 5 3/4" length, top 6' 0" bottom thickness of plates 3/8" description of joint Single rivet Cap if rings are fitted no

Greatest length between rings working pressure of furnace by the rules 70 lbs combustion chamber plating, thickness, sides 7/16" back 7/16" top 7/16"

Pitch of stays to ditto, sides 11" back 10 3/4" top 11" If stays are fitted with nuts or riveted heads nuts working pressure of plating by rules 44.5 lbs

Diameter of stays at smallest part 1 1/4" working pressure of ditto by rules 61 lbs. end plates in steam space, thickness 1/2"

Pitch of stays to ditto 16 x 13" how stays are secured 8 1/2" angle iron and riveted plates working pressure by rules 40 lbs stiffened diameter of stays at smallest part 1 1/8" x 2 1/2" working pressure by rules 14.1 lbs. Front plates at bottom, thickness 7/16" Back plates, thickness 7/16"

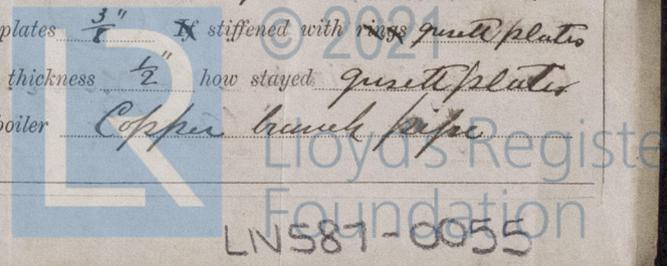
Greatest pitch of stays working pressure by rules Diameter of tubes 3 1/2" pitch of tubes 4 3/4" thickness of tube plates, front 9/16" how stayed Side stays pitch of stays 13 1/4" width of water spaces 1 1/4"

Diameter of Superheater or Steam chest 6' 6" length 5' 10 1/2" thickness of plates 3/8" description of longitudinal joint S R Cap diam. of rivet holes 3/4"

Pitch of rivets 2 1/2" working pressure of shell by rules 52 lbs. diameter of flue 3' 3 3/4" thickness of plates 3/8" stiffened with ribs and plates

Distance between rings working pressure by rules 5 1/2 lbs. end plates of superheater, or steam chest; thickness 1/2" how stayed gusset plates

Superheater or steam chest; how connected to boiler Copper branch pipe



LN 587-0055

**DONKEY BOILER**— 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 \_\_\_\_\_ if fitted with easing gear \_\_\_\_\_ if steam from main boilers can enter the donkey boiler \_\_\_\_\_ diameter of donkey boiler \_\_\_\_\_ length \_\_\_\_\_ description of riveting \_\_\_\_\_

Thickness of shell plates \_\_\_\_\_ diameter of rivet holes \_\_\_\_\_ whether punched or drilled \_\_\_\_\_ pitch of rivets \_\_\_\_\_ lap of plating \_\_\_\_\_

per centage of strength of joint \_\_\_\_\_ thickness of crown plates \_\_\_\_\_ stayed by \_\_\_\_\_

Diameter of furnace, top \_\_\_\_\_ bottom \_\_\_\_\_ length of furnace \_\_\_\_\_ thickness of 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 plates \_\_\_\_\_ thickness of water tubes \_\_\_\_\_

**SPARE GEAR.** State the articles supplied:—

The foregoing is a correct description,  
*Wm Allsup & Sons.* Manufacturer.

**General Remarks** (State quality of workmanship, opinions as to class, &c.) *The material and workmanship are of good quality. have been specially surveyed during the whole course of construction, to plans approved and in conformity with the requirements of the Rules. The machinery and boilers have been examined under steam and are now in safe and efficient working condition and eligible, in our opinions, to have the notification **L.M.C. 3.84** recorded in the Register Books of this Society.*

*It is submitted that this vessel is eligible to have the notification L.M.C. 3.84 recorded.*

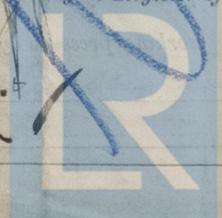
*17/5/84*

The amount of Entry Fee £ 1 : 0 : 0 received by me,  
 Special .. £ 14 : 17 : 0  
 Donkey Boiler Fee .. £ : :  
 Certificate (if required) .. £ : : *10/5/1884*  
 To be sent as per margin.

*J.F.P.*

*J.G. Kinghorn & A. Stoddart*  
 Engineer Surveyors to Lloyd's Register of British & Foreign Shipping.

Committee's Minute *Liverpool May 16<sup>th</sup> 1884*  
**L.M.C. (Red) 3.84.**



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