

REPORT ON MACHINERY.

No. 29482

No. in Survey held at
Reg. Book.

Preston

Date, first Survey 14th May 83 Last Survey 24th March 1884

Received at London Office

SATURDAY 17 MAY 1884

(Number of Visits.....)

on the

Tons

Master Built at Preston By whom built W. Allsup Sons When built 1884

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 1/2" 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 R¹² Caps circum. seams Single Rivet Caps 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 1/4" length, top 6' 0" bottom thickness of plates 3/8" description of joint Single rivet Caps 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 1/2" 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 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 7/8" Back plates, thickness 7/8"

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 rings and plates

Distance between rings working pressure by rules 57 lbs end plates of superheater, or steam chest; thickness 1/2" how stayed rivet plates

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

LIN 581-0055

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 opinion, 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.

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.

(Travelling Expenses, if any, £)

Committee's Minute

Liverpool May 16th 1884

± L.M.C. (Red) 3.84.

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