

REPORT ON MACHINERY.

Port of *Newcastle*

11 NOV 92

Received at London Office 18

No. in Survey held at *Newcastle* Date, first Survey _____ Last Survey _____ 18
 Reg. Book. _____ (Number of Vessels) _____
 on the *S.S. Port Melbourne* Tons } Gross _____
 } Net _____
 Master _____ Built at *Newcastle* By whom built *Newcastle Ship Co* When built *1892*
 Engines made at *Newcastle* By whom made *do* when made _____
 Boilers made at _____ By whom made *do* when made _____
 Registered Horse Power _____ Owners _____ Port belonging to _____
 Nom. Horse Power as per Section 28 *528*

ENGINES, &c. — Description of Engines _____ No. of Cylinders _____
 Diameter of Cylinders _____ Length of Stroke _____ Revolutions per minute _____ Diameter of Screw shaft ^{as per rule} _____
 Diameter of Tunnel shaft ^{as per rule} _____ Diameter of Crank shaft journals _____ Diameter 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 _____
 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 _____
 Are all the bilge suction pipes fitted with roses _____ Are the roses in Engine room always accessible _____ Are the sluices on Engine room bulkheads always accessible _____
 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 stokehold 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 and all boiler mountings accessible at all times _____
 Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication 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 _____
 Is it fitted with a watertight door _____ worked from _____

BOILERS, &c. — (Letter for record *a*) Total Heating Surface of Boilers _____
 No. and Description of Boilers *One - cyl. Simple vertical* Working Pressure *160* Tested by hydraulic pressure to *320*
 Date of test *14.9.92* Can each boiler be worked separately *ys* Area of fire grate in each boiler *43 sq ft* No. and Description of safety valves to each boiler *Two - opening* Area of each valve *4.9 sq in* Pressure to which they are adjusted *160 lbs.* Are they fitted with easing gear *ys* Smallest distance between boilers or uptakes and bunkers or woodwork *1 1/2 ft* Mean diameter of boilers *12.3*
 Length *11.0* Material of shell plates *clot* Thickness *3/2* Description of riveting: circum. seams *d l* long. seams *knock joint*
 Diameter of rivet holes in long. seams *1/2 x 3/4* Pitch of rivets *8 1/2* Lap of plates or width of butt straps *2 1/2* & *1 1/2*
 Per centages of strength of longitudinal joint *84.4* Working pressure of shell by rules *164* Size of manhole in shell *16 x 12*
 Size of compensating ring *7 x 1 1/2* No. and Description of Furnaces in each boiler *Three plain* Material *clot* Outside diameter *36*
 Length of plain part ^{top} *3.6* Thickness of plates ^{bottom} *3/2* Description of longitudinal joint *welded* No. of strengthening rings *one*
 Working pressure of furnace by the rules *190* Combustion chamber plates: Material *clot* Thickness: Sides *9/16* Back *5/8* Top *9/16* Bottom *13/16*
 Pitch of stays to ditto: Sides *8* Back *8* Top *8* If stays are fitted with nuts or riveted heads *nuts* Working pressure by rules *160*
 Material of stays *Iron* Diameter at smallest part *1 1/2* Area supported by each stay *640* Working pressure by rules *160* End plates in steam space: Material *clot* Thickness *29* Pitch of stays *17* How are stays secured *nut & washer* Working pressure by rules *164* Material of stays *Iron*
 Diameter at smallest part *6.7* Area supported by each stay *2890* Working pressure by rules *173* Material of Front plates at bottom *clot* Thickness *3/4* Material of Lower back plate *clot* Thickness *23* Greatest pitch of stays *130* Working pressure of plate by rules *160*
 Diameter of tubes *3 1/2* Pitch of tubes *4 3/4* Material of tube plates *clot* Thickness: Front *3/4* Back *13/16* Mean pitch of stays *as plain*
 Pitch across wide water spaces *15* Working pressures by rules *160* Girders to Chamber tops: Material *Iron* Depth and thickness of girder at centre *7 1/2 x 1 1/2* Length as per rule *26* Distance apart *8 1/4* Number and pitch of Stays in each *2 - 8*
 Working pressure by rules *160* Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
 If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed
 Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

If the state whether, and if the report also sent on the hull of the ship?

Lloyd's Register Foundation

NWC828-0172

DONKEY BOILER— Description

Made at _____ By whom made *W. Marshall* 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 casing gear _____ If steam from main boilers can enter the donkey boiler _____

Diameter of donkey boiler _____ Length _____ Material of shell plates _____ Thickness _____

Description of riveting long. seams _____ Diameter 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.

For

B. & W. HAWTHORN, LESLIE & Co., LIMITED.

W. Marshall

DIRECTOR

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

The boilers were seen under steam & the safety valves were adjusted to lift at 160 lbs. press. per sq. in.

Em Salmon
Eng. Surveyor to Lloyd's Register
2/11/92
2-11-92

The signatures are required not to write in or below the space for Committee's Minutes

Certificate (if required) to be sent to

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

Em Salmon
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

TUES. 15 NOV 1892

Committee's Minute

As signed

See first entry



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Foundation