

REPORT ON BOILERS.

Port of Hull

WED. 20 JUN 1906

No. in Reg. Book.

Survey held at

Date, first Survey

Received at London Office

Last Survey

(Number of Visits)

on the

Master

Built at

By whom built

Engines made at

By whom made

When built

Boilers made at

By whom made

when made

Registered Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

(Letter for record S) Total Heating Surface of Boilers 13194 sq ft Is forced draft fitted No. No. and Description of Boilers One Great Engine Working Pressure 180 lb Tested by hydraulic pressure to 360 lb Date of test 21 Feb 06 No. of Certificate 3040 Can each boiler be worked separately Area of fire grate in each boiler 357 sq ft No. and Description of safety valves to each boiler 2 Spring loaded Area of each valve 3.980 sq ft Pressure to which they are adjusted 185 lb Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler Smallest distance between boilers or uptakes and bunkers or woodwork 9 ft 10 in Mean dia. of boilers 12.6 Length 10.0 Material of shell plates steel Thickness 1 1/2 in Range of tensile strength 27 to 30 Are the shell plates welded or flanged both Descrip. of riveting: cir. seams long. seams all chip steel Diameter of rivet holes in long. seams 1 1/2 in Pitch of rivets 7 1/2 in Lap of plates or width of butt straps 16 5/8 in Per centages of strength of longitudinal joint rivets 86.0 % plate 85.7 % Working pressure of shell by rules 180 lb Size of manhole in shell 16 x 12 in Size of compensating ring 32 x 28 x 1 1/2 in No. and Description of Furnaces in each boiler Two Stain Material steel Outside diameter 43 in Length of plain part top 70 in bottom 70 in Thickness of plates crown 1 1/2 in bottom 1 1/4 in Description of longitudinal joint welded No. of strengthening rings Working pressure of furnace by the rules 180 lb Combustion chamber plates: Material steel Thickness: Sides 2 1/2 in Back 2 1/2 in Top 2 1/2 in Bottom 1 3/4 in Pitch of stays to ditto: Sides 9 1/2 in 8 1/2 in Back 9 1/2 in 8 1/2 in Top 9 1/2 in 8 1/2 in If stays are fitted with nuts or riveted heads none Working pressure by rules 180 lb Material of stays steel Diameter at smallest part 1 5/8 in Area supported by each stay 9 1/2 in 8 1/2 in Working pressure by rules 239 lb End plates in steam space: Material steel Thickness 1 1/2 in Pitch of stays 17 1/2 in How are stays secured all nut Working pressure by rules 180 lb Material of stays steel Diameter at smallest part 2 3/4 in Area supported by each stay 17 1/2 in 17 1/2 in Working pressure by rules 214 lb Material of Front plates at bottom steel Thickness 1 in Material of Lower back plate steel Thickness 1 5/8 in Greatest pitch of stays 1 1/2 in Working pressure of plate by rules 180 lb Diameter of tubes 3 1/2 in Pitch of tubes 4 1/2 in Material of tube plates steel Thickness: Front 1 in Back 1 1/4 in Mean pitch of stays 9 in Pitch across wide water spaces 1 1/4 in Working pressures by rules 189 lb Girders to Chamber tops: Material steel Depth and thickness of girder at centre 9 x 1 1/2 in Length as per rule 31 5/8 in Distance apart 8 1/2 in Number and pitch of Stays in each 4 in 9 1/2 in Working pressure by rules 207 lb 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

VERTICAL DONKEY BOILER

No. Description Manufacturers of steel 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 Dia. 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 Working pressure of shell by rules 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 Working pressure of furnace by rules Thickness of furnace crown plates FOR THE CENTRAL MARINE ENGINE WORKS Diameter of uptake Thickness of uptake plates Thickness of water tubes

The foregoing is a correct description,

Wm. C. Bowman Manufacturer.

Dates of Survey while building During progress of work in shops -- 1905 Nov. 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 1906 Jan. 4, 5, 8, 9, 10, 12, 15, 16, 18, 22, 24, 26, 29, 30, 31, Feb. 1, 2, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 1906

Is the approved plan of main boiler forwarded herewith

donkey

Lloyd's Register Foundation

W930-0060

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. *Workmanship Good.*)

This main Boiler has been constructed under Special Permit in accordance with the approved Test Point tested by hydraulic pressure to 360 lb and found tight and sound

It has now been forwarded to Lismore where it will be placed on board

Certificate (if required) to be sent to
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee...	£	:	:	When applied for
Special ...	£	3	16	24.2.1906
Donkey Boiler Fee ...	£	:	:	When received,
Travelling Expenses (if any) £	:	:	:	13/3/06.1906

Committee's Minute
Assigned
FRI. 22 JUN 1906

James Jones
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

These pages
Signal Letters
Official Number
123,5
No., Date, and
Whether British
Foreign Built
British
Number of Decks
Number of Masts
Rigged
Stern
Build
Galleries
Head
Framework
vessel
Number of Boats
Number of Watertight
and their capacity
Total to quarter
at side amidships
No. of Engines
One
set
Triple direct
inverted
Number of
Iron or
Pressure
Under Tonnage
Closed-in spaces
Space or spaces
Poop
Forecastle
Round House
Other closed
Spaces for machinery
Section 78 (2)
1894, if required
Gross
Deductions, as per
Register
Name of Owners
No. of Owners
Name, Residence
J. & G.
George L.
Dated 8th JUN 1906