

Hull No 18030

# REPORT ON BOILERS.

Appl. No. 12838.

WED. 20 JUN 1906

Port of *Wm Haulpool*

Received at London Office

No. in Reg. Book. Survey held at *Wm Haulpool*

Date, first Survey *17<sup>th</sup> Nov. 1905*

Last Survey *24<sup>th</sup> Feb. 1906*

on the *Steam Trawler "Macraona"*

(Number of Visits *57*)

Tons { Gross *234*  
Net *87*

Master Built at *Grimsby*

By whom built *Wm Haulpool*

When built *1906*

Engines made at *Grimsby*

By whom made *G. Central Coop & Co. Ltd*

when made *1906*

Boilers made at *Wm Haulpool*

By whom made *Central Marine & Work*

when made *1906*

Registered Horse Power *76*

Owners

Port belonging to

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

*J. Spencer & Co.*

(Letter for record *S*) Total Heating Surface of Boilers *13194 1/2* Is forced draft fitted *no.* No. and Description of Boilers *One Great main*

Working Pressure *180 lb* Tested by hydraulic pressure to *360 lb* Date of test *21<sup>st</sup> Feb 06*

No. of Certificate *3040* Can each boiler be worked separately *no.* Area of fire grate in each boiler *35 1/2* No. and Description of safety valves to each boiler *2 Spring loaded* Area of each valve *3.980* 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 *no.*

Smallest distance between boilers or uptakes and bunkers or woodwork *9 1/10* Mean dia. of boilers *12.6* Length *10.0*

Material of shell plates *steel* Thickness *1 3/16* Range of tensile strength *27 1/2* Are the shell plates welded or flanged *both*

Descrip. of riveting: cir. seams *no.* long. seams *all chamfered* Diameter of rivet holes in long. seams *1 1/8* Pitch of rivets *7 7/8*

Lap of plates or width of butt straps *16 5/8* 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"* Size of compensating ring *32" x 28" x 1 1/2"*

No. and Description of Furnaces in each boiler *Two steam* Material *steel* Outside diameter *44.0* Length of plain part *70"* Thickness of plates *1 1/16*

Description of longitudinal joint *welded* No. of strengthening rings *no.* Working pressure of furnace by the rules *180 lb* Combustion chamber plates: Material *steel* Thickness: Sides *2 1/32"* Back *2 1/32"* Top *2 1/32"* Bottom *1 3/16"* Pitch of stays to ditto: Sides *9 1/2 x 8 1/2"* Back *9 1/2 x 8 1/2"*

Top *9 1/2 x 8 1/2"* If stays are fitted with nuts or riveted heads *no.* Working pressure by rules *180 lb* Material of stays *steel* Diameter at smallest part *1 5/8"* Area supported by each stay *9 1/2 x 8 1/2"* Working pressure by rules *239 lb* End plates in steam space: Material *steel* Thickness *1 1/8"*

Pitch of stays *17 1/2 x 17 1/2"* How are stays secured *all nut* Working pressure by rules *180 lb* Material of stays *steel* Diameter at smallest part *2 29/32"*

Area supported by each stay *17 1/2 x 17 1/2"* Working pressure by rules *214 lb* Material of Front plates at bottom *steel* Thickness *1"* Material of Lower back plate *steel* Thickness *1 5/16"* Greatest pitch of stays *1 1/4"* Working pressure of plate by rules *180 lb* Diameter of tubes *3 1/2"*

Pitch of tubes *4 1/2"* Material of tube plates *steel* Thickness: Front *1"* Back *1 1/16"* Mean pitch of stays *9"* Pitch across wide water spaces *1 1/4"* Working pressures by rules *189 lb* Girders to Chamber tops: Material *steel* Depth and thickness of girder at centre *9" x 1 1/2"* Length as per rule *31 5/8"* Distance apart *8 1/4"* Number and pitch of Stays in each *two 9 1/2"*

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 *no.* Length *no.* Thickness of shell plates *no.* Material *no.* Description of longitudinal joint *no.* Diam. of rivet holes *no.* Pitch of rivets *no.* Working pressure of shell by rules *no.* Diameter of flue *no.* Material of flue plates *no.* Thickness *no.*

If stiffened with rings *no.* Distance between rings *no.* Working pressure by rules *no.* End plates: Thickness *no.* How stayed *no.*

Working pressure of end plates *no.* Area of safety valves to superheater *no.* Are they fitted with easing gear *no.*

## 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

Diameter of uptake Thickness of uptake plates Thickness of water tubes

FOR THE CENTRAL MARINE ENGINE WORKS, The foregoing is a correct description, Wm. Spencer & Co. Manufacturer.

Dates of Survey while building { During progress of work in shops -- } 1905 Nov. 17, 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, 31, Mar. 1, 2, 3, 4, 5, 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, 31, Apr. 1, 2, 3, 4, 5, 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, 31, May 1, 2, 3, 4, 5, 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, 31, Jun. 1, 2, 3, 4, 5, 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, 31, Jul. 1, 2, 3, 4, 5, 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, 31, Aug. 1, 2, 3, 4, 5, 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, 31, Sep. 1, 2, 3, 4, 5, 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, 31, Oct. 1, 2, 3, 4, 5, 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, 31, Nov. 1, 2, 3, 4, 5, 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, 31, Dec. 1, 2, 3, 4, 5, 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, 31

Is the approved plan of main boiler forwarded herewith " " " donkey " " "

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

*This main boiler has been constructed under Special Survey in accordance with the approved Plans and tested by hydraulic pressure to 360 lbs and found tight and sound*

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

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

The amount of Entry Fee...	£	:	:	When applied for
Special ...	£	3	16	24.2.19
Donkey Boiler Fee ...	£	:	:	When received,
Travelling Expenses (if any) £	£	:	:	13/3/06.19

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

Committee's Minute **FRI. 22 JUN 1906**

Assigned

These pages are to be filled in by the Surveyor

Signal Letter

Official No.

123,5

No., Date, and

Whether British or Foreign Built

British

Number of Decks

Number of Masts

Rigged ...

Stern ...

Build ...

Galleries ...

Head ...

Framework of vessel ...

Number of Boats

Number of Watertight Compartments and their capacity

Total to quarter deck and at side amidships

No. of Engines

One set

Triples direct inverted

Number of Iron or Steel 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 Tonnage

Deductions, as per Regulations

Registered Tonnage

Name of Owner

No. of Owners

Name, Residence

*J. & G. George*

Dated 8<sup>th</sup> June 1906

