

REPORT ON BOILERS.

No. 5879.
MUN. 19 APR 1909

Port of *Grimsey*. Received at London Office
 No. in Survey held at *Grimsey*. Date, first Survey *Jan. 21st 09* Last Survey *April 6th 09*
 Reg. Book. *457* on the *Steel Boiler for fundresses trader Strick.* Tons Gross *146* Net *69*
 Master *Cowley*. Built at *Cowley*. By whom built *Cochran Cooper & Co. Ltd.* when built *1897*
 Engines made at *Hull*. By whom made *C.D. Holmes & Co.* when made *1897*
 Boilers made at *Grimsey*. By whom made *Gt Central Co. Op. Eng. & Mch. Co.* when made *1909*
 Registered Horse Power *45*. Owners *H.A. Taylor* Port belonging to *Grimsey*

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY—Manufacturers of Steel *Stewart & Lloyds*.
 (Letter for record *P.*) Total Heating Surface of Boilers *714 ft²* Is forced draft fitted *no* No. and Description of Boilers *One, single ended, marine* Working Pressure *165 lb* Tested by hydraulic pressure to *230 lb* Date of test *6-4-09*
 No. of Certificate *76* Can each boiler be worked separately ☒ Area of fire grate in each boiler ☒ No. and Description of safety valves to each boiler ☒ Area of each valve ☒ Pressure to which they are adjusted ☒
 Are they fitted with easing gear ☒ 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 ☒ *Outside* Mean dia. of boilers *10-3"* Length *9-3-24"*
 Material of shell plates *Steel* Thickness *3/16"* Range of tensile strength *28,320* Are the shell plates welded or flanged *no*
 Descrip. of riveting: cir. seams *Lap. D.R.* long. seams *D. Staps T.R.* Diameter of rivet holes in long. seams *1"* Pitch of rivets *6-3/4"*
 Lap of plates width of butt straps *15"* Per centages of strength of longitudinal joint rivets *106%* Working pressure of shell by rules *170 lb* Size of manhole in shell *16x12"* Size of compensating ring *2-8x2-4"* No. and Description of Furnaces in each boiler *2. Plain* Material *Steel* Outside diameter *3-2"* Length of plain part *5-3/4"* Thickness of plates crown *2/32"* bottom *1/32"*
 Description of longitudinal joint *weld* No. of strengthening rings *1* Working pressure of furnace by the rules *170 lb* Combustion chamber plates: Material *Steel* Thickness: Sides *9/16"* Back *9/16"* Top *9/16"* Bottom *1/16"* Pitch of stays to ditto: Sides *8x8"* Back *7-1/2x8-1/2"* Top *8x7-1/2"* If stays are fitted with nuts or riveted heads *unb.* Working pressure by rules *170 lb* Material of stays *Steel* Diameter at smallest part *1-3/8"* Area supported by each stay *640* Working pressure by rules *188* End plates in steam space: Material *Steel* Thickness *29/32"* Pitch of stays *15x15"* How are stays secured *One Nut* Working pressure by rules *173* Material of stays *Steel* Diameter at smallest part *2-286"* Area supported by each stay *2250* Working pressure by rules *188* Material of Front plates at bottom *Steel* Thickness *29/32"* Material of Lower back plate *Steel* Thickness *29/32"* Greatest pitch of stays *15"* Working pressure of plate by rules *165 lb* Diameter of tubes *3-4-1/2"* Pitch of tubes *4-1/2"* Material of tube plates *Steel* Thickness: Front *29/32"* Back *1/16"* Mean pitch of stays *9"* Pitch across wide water spaces *4"* Working pressures by rules *171 lb* Girders to Chamber tops: Material *Steel* Depth and thickness of girder at centre *7x14"* Length as per rule *26-75"* Distance apart *72"* Number and pitch of Stays in each *2-8"* Working pressure by rules *184 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 Date of test 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 Plates 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
 plates Radius of do. Stayed by Diameter of uptake Thickness of uptake plates
 Thickness of water tubes

The foregoing is a correct description,

For the GREAT CENTRAL CO-OPERATIVE ENGINEERING & SHIP REPAIRING COMPANY, LTD. Manufacturer.

Dates During progress of work in shops - - 1909 Jan. 21. Feb. 8-11-26 Mar. 8-12-16-22-31.
 while building During erection on board vessel - - - April 1-6.
 Total No. of visits *12*

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

GENERAL REMARKS

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

This steel boiler has been constructed under special survey & in accordance with the approved plan & the Secretary's letter dated 22nd January 1909. The materials & workmanship are good & on completion the boiler satisfactorily withstood the hydraulic test.

The boiler will shortly be fitted on board the unclassified trawler "Ostrich", No. 457 in Register Book. Request No. 41. 23/1/09.

As this boiler is not intended for a classed vessel, it is submitted that no further action be taken in this case

*H. G. D.
19/4/09*

*J. R. R.
19.4.09*

The amount of Entry Fee...	£	:	:	When applied for,
Special ...	£	2	8	17/4/09.
Donkey Boiler Fee ...	£	:	:	When received,
Travelling Expenses (if any) £	:	:	:	24/5/09

D. R. Kitchin.

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

Committee's Minute

Assigned *not for Class. Com.*

GMS 358/216



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