

# REPORT ON BOILERS.

No. 5879.  
MUN. 19 APL 1909

Port of Grimsey. Received at London, Office  
 No. in Survey held at Grimsey. Date, first Survey Jan. 21<sup>st</sup> 09 Last Survey April 6<sup>th</sup> 09.  
 Reg. Book. 457 on the Steel Boiler for unclassified trawler "Strick." Tons } Gross 146  
 } Net 69  
 Master Coxrae Cooper & Co. Ltd. Built at Penley. 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 G. Central Co. Op. Ex. Ltd. 1897. when made 1909.  
 Registered Horse Power 45. Owners H.A. Taylor Port belonging to Grimsey.

Boiler A15

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

(Letter for record P.) Total Heating Surface of Boilers 714 sq. ft. 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 diam. of boilers 10-3" Length 9-3-1/4"  
 Material of shell plates Steel Thickness 13/16" Range of tensile strength 29,320 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 2-1/2" bottom 1-3/2"  
 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 64 sq. in. Working pressure by rules 188. End plates in steam space: Material Steel Thickness 2-3/8" Pitch of stays 15x15" How are stays secured the nuts Working pressure by rules 173. Material of stays Steel Diameter at smallest part 2-2/8" Area supported by each stay 225 sq. in. Working pressure by rules 188. Material of Front plates at bottom Steel Thickness 2-3/8" Material of Lower back plate Steel Thickness 2-3/8" Greatest pitch of stays 15" Working pressure of plate by rules 165 lb. Diameter of tubes 3-1/4" Pitch of tubes 4-1/2" Material of tube plates Steel Thickness: Front 2-3/8" 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 7x1-1/4" Length as per rule 26.75" Distance apart 7-1/2" 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  
 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 of Survey while building } During progress of work in shops - - } 1909 Jan. 21. Feb. 8-11-26. Mar. 8-12-16-22-31.  
 } 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 22<sup>nd</sup> 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.

#628  
19/4/09

JMR  
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

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

Committee's Minute  
Assigned Not for Class. Comd.