

# REPORT ON BOILERS.

No. 30,054

Received at London Office

Date of writing Report 14-7-17 191 When handed in at Local Office 16-7-17 191 Port of Hull

No. in Survey held at Hull Date, First Survey 2-4-17 Last Survey 16-7-17 191

Boiler for S. trawler "John Gule" (Number of Visits) Gross 324 Tons Net 133

Built at Selby By whom built Cochrane & Sons Ltd When built 1917-7

Plates made at Middlesbrough By whom made Richardsons Westgarth & Co Ltd (No 2318) When made 1917-7

Rivets made at Hull By whom made C. D. Holmes & Co Ltd (No A1) When made 1917-7

Registered Horse Power Owners British Admiralty Port belonging to

**WELDED TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.**—Manufacturers of Steel Steel & Co of Scotland

Number for record 5 Total Heating Surface of Boilers 1440 sq ft Is forced draft fitted no No. and Description of Boilers one single ended

Working Pressure 200 lbs Tested by hydraulic pressure to 400 Date of test 14-6-17

Area of fire grate in each boiler 48 sq ft No. and Description of Valves to each boiler Two spring loaded Area of each valve 4.9 sq ft Pressure to which they are adjusted 205 lbs

Are they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Least distance between boilers or uptakes and bunkers or woodwork 8" Plugged Mean dia. of boilers 165" Length 10'-6"

Material of shell plates steel Thickness 1 1/8" Range of tensile strength 28-32 tons Are the shell plates welded or flanged no

Kind of riveting: cir. seams double long. seams T.P.D.B.S. Diameter of rivet holes in long. seams 1 1/4" Pitch of rivets 8 3/8"

Width of butt straps 18" Per centages of strength of longitudinal joint rivets 85.9 plate 85.5 Working pressure of shell by rules 202

Size of manhole in shell 16" x 12" Size of compensating ring 7' x 1 1/8" No. and Description of Furnaces in each Three plain Material steel Outside diameter 40" Length of plain part top 78 1/2" bottom 69" Thickness of plates crown 2 13/16" bottom 2 1/16"

Description of longitudinal joint welded No. of strengthening rings Working pressure of furnace by the rules 206 Combustion chamber Material steel Thickness: Sides 3/4" Back 23/32" Top 3/4" Bottom 3/4" Pitch of stays to ditto: Sides 10' x 6" Back 9 3/4' x 8 3/4' x 9 3/8"

Are stays fitted with nuts or riveted heads nuts Working pressure by rules 208 Material of stays steel Diameter at top 2' 07" Area supported by each stay 88 sq ft Working pressure by rules 211 End plates in steam space: Material steel Thickness 1 3/32"

How are stays secured 2 1/2" x 1 1/2" Working pressure by rules 210 Material of stays steel Diameter at smallest part 7' 5"

Area supported by each stay 335 sq ft Working pressure by rules 233 Material of Front plates at bottom steel Thickness 1 5/16" Material of back plate steel Thickness 1 5/16" Greatest pitch of stays 13 3/4' x 9 9/16" Working pressure of plate by rules 216 Diameter of tubes 3 1/2"

Material of tube plates steel Thickness: Front 15/16" + 3/4" Back 7/8" Mean pitch of stays 10" Pitch across wide spaces 14" Working pressures by rules 275 lbs Girders to Chamber tops: Material steel Depth and thickness of at centre 11" x 1 3/4" Length as per rule 36' 2 1/8" Distance apart 11" Number and pitch of Stays in each Three 8"

Working pressure by rules 201 Superheater or Steam chest: how connected to boiler Can the superheater be shut off and the boiler worked

Material steel Description of longitudinal joint Diam. of rivet

Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

End plates: Thickness How stayed

Area of safety valves to superheater Are they fitted with easing gear

The foregoing is a correct description,

For CHARLES D. HOLMES & CO. LTD. Manufacturer.

During progress of work in shops 1917: Apr 2, 11, 16, 26, May 1, 4, 9, 12, 15, 21, 23, 29, 31 Is the approved plan of boiler forwarded herewith yes

During erection on board vessel Mar 22, 23, Jun 4, 6, 11, 14, 20, Jul 2, 3, 5, 7, 10, 11, 16 Total No. of visits 27

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) This boiler has been constructed in accordance with the approved plan & the rules of this Society. Materials & workmanship are good. It has been tested as above by hydraulic pressure & found tight. The boiler has been properly fitted & secured on board the vessel & safety valves adjusted under steam.

Survey Fee £ 6: 10: When applied for, 18/7/1917

Printing Expenses (if any) £ 12/3 When received, 31-7-1917

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

Committee's Minute

FRI. 20 JUL. 1917

See memo. F.E. rpt. attached



Lloyd's Register Foundation