

REPORT ON BOILERS.

No. 30. 118

Date of writing Report 27-8-17 1917 When handed in at Local Office 30-8-17 1917 Port of Hull Received at London Office MON. SEP - 3 1917.

No. in Survey held at Hull Date, First Survey May 1st Last Survey 30-8-17 1917
 Reg. Book. on the steel screw trawler George Byron (Number of Visits 29) Tons } Gross 324
 Net 131
 Master Built at Selby By whom built Cochrane & Sons Ltd When built 1917-8
 Engines made at Middlesbrough By whom made Rippon & Wutgart & Co. Ltd (2380) When made 1917-8
 Boilers made at Hull By whom made C. J. Holmes & Co. Ltd (A5) When made 1917-8
 Registered Horse Power 87 Owners British Admiralty Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel J. Spencer & Co (Plate used 211)

(Letter for record S) Total Heating Surface of Boilers 1440 sq ft Is forced draft fitted no No. and Description of Boilers one single ended Working Pressure 200 Tested by hydraulic pressure to 400 Date of test 27-7-17

No. of Certificate 3226 Can each boiler be worked separately yes Area of fire grate in each boiler 48 sq ft No. and Description of safety valves to each boiler two spring loaded Area of each valve 4.9 sq in 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 no

Smallest distance between boilers on uptakes and bunkers or ~~woodwork~~ 8" Bl lagged dia. of boilers 165" Length 10'-8"

Material of shell plates steel Thickness 1 5/16" Range of tensile strength 28-32 tons Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams double long. seams J.P. & B.S. Diameter of rivet holes in long. seams 1 1/4" Pitch of rivets 8 5/8"

Top of plates or width of butt straps 18" Per centages of strength of longitudinal joint rivets 85.9 Working pressure of shell by rules 202 Size of manhole in shell 16" x 12" Size of compensating ring 7" x 1 5/16" No. and Description of Furnaces in each boiler Three plain Material steel Outside diameter 40" Length of plain part 78 1/2" Thickness of plates top 1 13/16" bottom 69"

Description of longitudinal joint welded No. of strengthening rings no Working pressure of furnace by the rules 206 Combustion chamber plates: Material steel Thickness: Sides 3/4" Back 2 3/32" Top 3/4" Bottom 3/4" Pitch of stays to ditto: Sides 10" x 8" Back 9 1/2" x 8 1/2"

Top 11" x 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 208 Material of stays steel Diameter at smallest part 7 1/2"

Smallest part 2'07" Area supported by each stay 88 sq in Working pressure by rules 211 End plates in steam space: Material steel Thickness 1 3/32"

Pitch of stays 9" x 17 1/2" How are stays secured J.P. & B.S. Working pressure by rules 210 Material of stays steel Diameter at smallest part 7 1/2"

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

Pitch of tubes 4 7/8" Material of tube plates steel Thickness: Front 1 5/16" + 5/16" Back 7/8" Mean pitch of stays 10" Pitch across wide water spaces 14" Working pressures by rules 275 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 11" x 1 3/4" Length as per rule 36.22 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 yes Can the superheater be shut off and the boiler worked separately yes Diameter no Length no Thickness of shell plates no Material no Description of longitudinal joint no Diam. of rivets no Pitch of rivets no Working pressure of shell by rules no Diameter of flue no Material of flue plates no Thickness no 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

The foregoing is a correct description, for CHARLES D. HOLMES & CO. LTD Manufacturer.

Dates Survey 1917: May 3, 8, 9, 23, 29, Jun. 11, 14, July 2, 6, 10, 13, 18, 19, 21 Is the approved plan of boiler forwarded herewith forwarded with John Zule

While building 25, 27, 31, Aug. 2, 13, 15, 17, 20, 22, 23, 24, 29, 30, Total No. of visits 29

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been constructed under special survey in accordance with the approved plans & the rules of this society the materials & workmanship are good. It has been tested by hydraulic pressure above & found sound & tight. The Boiler has been properly fitted & secured & the vessel & its safety valves adjusted.

Survey Fee ... £ 6 : 10 : - When applied for, 31-8 1917
Travelling Expenses (if any) £ : : When received, 31-8 1917

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

Committee's Minute TUE. SEP - 4 1917

