

REPORT ON BOILERS.

No. 30, 230

Received at London Office

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Date of writing Report 29-10-17 191 When handed in at Local Office 3-11-17 191 Port of Hull
 No. in Survey held at Hull Date, First Survey 4-7-17 Last Survey 30-10-17 191
 Reg. Book. on the steel screw tug "James Adams" (Number of Visits 22) Gross 324
 Tons Net 133
 Built at Telby By whom built Cochrane & Sons Ltd When built 1917-10
 Engines made at Manchester By whom made Griffiths Bros (Ld) When made 1917-10
 Boilers made at Hull By whom made C. J. Holmes & Co (Ld) When made 1917-10
 Registered Horse Power Owners British Admiralty Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Robert Stephenson & Co Ltd
 Matter 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 22-9-17
 of Certificate 3239 Can each boiler be worked separately ✓ 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
 Are they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler ✓
 Smallest distance between boilers on uptakes and bunkers on woodwork 8" Bl lagged Mean dia. of boilers 165" Length 10'-8"
 Material of shell plates steel Thickness 1 1/8" Range of tensile strength 28-32 Are the shell plates welded or flanged no
 Grip of riveting: cir. seams double long. seams J. R. & 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 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
 boiler three plain Material steel Outside diameter 40" Length of plain part top 78 1/2" Thickness of plates crown 3 1/8"
 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 8" Back 9 3/4" x 8 3/4"
11" x 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 208 Material of stays steel Diameter at
 test 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 1/8"
 of stays 19" x 7 5/8" How are stays secured D. T. & W. Working pressure by rules 210 Material of stays steel Diameter at smallest part 7.5"
 supported by each stay 335 sq in Working pressure by rules 233 Material of Front plates at bottom steel Thickness 1 5/8" Material of
 back plate steel Thickness 1 5/8" Greatest pitch of stays 13 3/4" x 9 9/16" Working pressure of plate by rules 216 Diameter of tubes 3 1/2"
 of tubes 4 7/8" 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 Girders to Chamber tops: Material steel Depth and thickness of
 at centre 11" x 1 3/4" Length as per rule 36.218 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
 separately ✓ Diameter ✓ Length ✓ Thickness of shell plates ✓ Material ✓ Description of longitudinal joint ✓ Diam. of rivet
✓ Pitch of rivets ✓ Working pressure of shell by rules ✓ Diameter of flue ✓ Material of flue plates ✓ Thickness ✓
 Stayed 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 ✓

The foregoing is a correct description,

Manufacturer.

During progress of 1917: July 4, 18, 21, 27, Aug 2, 13, 21, 27, 29, 31 Is the approved plan of boiler forwarded herewith already forwarded
 work in shops - - - Apr. 4, 6, 12, 19, 22 Oct 19, 16, 22, 23, 26, 27, 30
 During erection on board vessel - - - 22 Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been constructed
in special survey in accordance with the approved plan & the rules of this
city, the materials & workmanship are good. The boiler has been properly fitted
on board the vessel & its safety valves adjusted under steam

Survey Fee ... £ 6 : 10 : When applied for, 7-11-1917
 Travelling Expenses (if any) £ : : When received, 30-11-1917

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

FRI. 9-NOV. 1917

Committee's Minute

Signed