

REPORT ON BOILERS.

No. 30104

Received at London Office SAT 18 AUG. 1917

Date of writing Report 8-8-17 191 When handed in at Local Office 11-8-17 191 Port of Hull

No. in Survey held at Hull Date, First Survey 1-5-17 Last Survey 10-8-17 191

Reg. Book. on the trailer for steel survey trawler "Thomas Altkinson" (Number of Visits 5) Gross Tons }
Net Tons }

Master By whom built Cochran & Sons Ltd When built 1917-8

Engines made at Dunfermline By whom made Cooper & Greig Ltd 1917-8

Boilers made at Hull By whom made C. H. Holmes & Co Ltd (Ld) When made 1917-8

Registered Horse Power Owners British Admiralty Port belonging to ✓

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel John Spencer & Sons (plate 210)(Letter for record S) Total Heating Surface of Boilers 1440 Is forced draft fitted no No. and Description ofBoilers one single ended Working Pressure 200 Tested by hydraulic pressure to 400 Date of test 21-7-17No. of Certificate 3224 Can each boiler be worked separately ✓ Area of fire grate in each boiler 48 No. and Description ofsafety valves to each boiler Two spring loaded Area of each valve 4.9 Pressure to which they are adjusted 205Are 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" Blagden diam. of boilers 165" Length 10'-8"Material of shell plates steel Thickness 1 1/16" Range of tensile strength 28-32 Are the shell plates welded or flanged noDescrip. of riveting: cir. seams double long. seams 1 R. D. B. 1 Diameter of rivet holes in long. seams 1 1/4" Pitch of rivets 8 1/2"Gap of plates or width of butt straps 18" Per centages of strength of longitudinal joint rivets 85.9 plate 85.5 Working pressure of shell byrules 202 Size of manhole in shell 16" x 12" Size of compensating ring 7" x 1 1/16" No. and Description of Furnaces in eachboiler three plain Material steel Outside diameter 40" Length of plain part top 78 1/2" Thickness of plates crown 2 1/16" bottom 69"Description of longitudinal joint welded No. of strengthening rings ✓ Working pressure of furnace by the rules 206 Combustion chamberplates: 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 3/4" x 8 3/4" x 9 3/4"Top 11" x 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 208 Material of stays steel Diameter atsmallest part 2.07" Area supported by each stay 88 Working pressure by rules 211 End plates in steam space: Material steel Thickness 1 1/32"Pitch of stays 19" x 17 1/2" How are stays secured 8" 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" Working pressure by rules 233 Material of Front plates at bottom steel Thickness 1 1/16" Material ofLower back plate steel Thickness 1 1/16" Greatest pitch of stays 13 3/4" x 9 3/16" 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 1/16" + 3/4" db Back 7/8" Mean pitch of stays 10" Pitch across widewater spaces 14" Working pressures by rules 275-44 Girders to Chamber tops: Material steel Depth and thickness ofgirder 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 workedseparately ✓ Diameter ✓ Length ✓ Thickness of shell plates ✓ Material ✓ Description of longitudinal joint ✓ Diam. of rivetholes ✓ 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 ✓

The foregoing is a correct description,

For CHARLES D. HOLMES & CO. LTD Manufacturer.

Dates of Survey { During progress of work in shops - - - } May 1. 9. 23. 29. Jun 11. 14. Jul 2. 6. 10. 13. 26. Is the approved plan of boiler forwarded herewith Forwarded with ✓

while building { During erection on board vessel - - - } 27. 31. 31. Aug 3 Total No. of visits 15 John July 18/17

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

This boiler has been constructed under special survey in accordance with the approved plan & the rules of this Society, the materials & workmanship are good. It has been tested by hydraulic pressure as above found sound & tight. The boiler has been properly fitted & secured on board the vessel & its safety valves adjusted under steam.

Survey Fee ... 6 : 10 : } When applied for, 17-8-1917 W.H.R.

Travelling Expenses (if any) £ : : } When received, 31-8-1917 E.L.

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

Committee's Minute TUE. 21. AUG. 1917.

Assigned