

REPORT ON BOILERS.

No. 29850
FRI. 16 MAR. 1917

Received at London Office

Date of writing Report 6-3-17 191 When handed in at Local Office 13-3-17 191 Port of Hull
 No. in Survey held at Hull Date, First Survey Apr 1/15 Last Survey 4-3-17 191
 Reg. Book. on the steel s.s. Elmleaf on Olivet (Number of Visits See first rpt.) Gross Tons 5948 Net Tons 3714
 Master Getthing Built at Hull By whom built Earle's Co Ltd When built 1917-3
 Engines made at Hull By whom made Earle's Co Ltd When made 1917-3
 Boilers made at Hull By whom made Earle's Co Ltd When made 1917-3
 Registered Horse Power 565 Owners British Admiralty (Comd'r A. Andrews) belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel D. Colville & Sons

Letter for record S Total Heating Surface of Boilers 7860 Is forced draft fitted yes No. and Description of Boilers Two main + one aux high ended Working Pressure 220 Tested by hydraulic pressure to 440 Date of test 5-10-16
 No. of Certificate 3165 Can each boiler be worked separately yes Area of fire grate in each boiler 4 1/2 sq ft. and Description of Safety valves to each boiler two spring loaded Area of each valve 7.06 Pressure to which they are adjusted 225
 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 or uptakes and bunkers 7'-0" diam. of boilers 174" Length 12'-5"
 Material of shell plates steel Thickness 1 5/16" Range of tensile strength 30-34 tons Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams A.R. long. seams A.R. & B.S. Diameter of rivet holes in long. seams 1 3/8" Pitch of rivets 9 1/16"
 Width of butt straps 20 3/8" Percentages of strength of longitudinal joint rivets 85.4 Working pressure of shell by rules 220 Size of manhole in shell 16" x 12" Size of compensating ring 9" x 1 5/16" No. and Description of Furnaces in each boiler 3 Brighton Material steel Outside diameter 45 3/4" Length of plain part top ✓ bottom ✓ Thickness of plates crown 2 1/16" bottom 1 5/16"
 Description of longitudinal joint welded No. of strengthening rings ✓ Working pressure of furnace by the rules 247 Combustion chamber plates: Material steel Thickness: Sides 1 1/16" Back 1 1/16" Top 2 3/32" Bottom 1 3/16" Pitch of stays to ditto: Sides 10 1/2" x 8" Back 9" x 8"
 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 222 Material of stays steel Diameter at smallest part 2.4" Area supported by each stay 92.5 Working pressure by rules 233 End plates in steam space: Material steel Thickness 1 5/16"
 How are stays secured A.T. Working pressure by rules 225 Material of stays steel Area at smallest part 7.24
 Area supported by each stay 341.25 Working pressure by rules 221 Material of Front plates at bottom steel Thickness 1 5/8" Material of cover back plate steel Thickness 3 1/32" Greatest pitch of stays 17" x 8" Working pressure of plate by rules 237 Diameter of tubes 2 1/2"
 Material of tube plates steel Thickness: Front 1 1/32" Back 7/8" Mean pitch of stays 8 1/2" Pitch across wide spaces 13 1/2" Working pressures by rules 224 Girders to Chamber tops: Material steel Depth and thickness of boiler at centre 10 1/2" x 1 3/4" Length as per rule 34 7/16" Distance apart 9 3/4" Number and pitch of Stays in each 3-8" 10 1/2" x 1 3/4"
 Working pressure by rules 232 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 rivets ✓ Pitch of rivets ✓ Working pressure of shell by rules ✓ Diameter of flue ✓ Material of flue plates ✓ Thickness ✓
 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 ✓

FOR EARLE'S
 The foregoing is a correct description,
[Signature] Manufacturer.

During progress of work in shops - - - See 1st Entry Is the approved plan of boiler forwarded herewith yes
 During erection on board vessel - - - Total No. of visits ✓

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. The Boiler has been tested hydraulic pressure as above found sound & tight. Has been properly fitted & secured on board the vessel.

Survey Fee ... £ See 1st Entry Applied for, 191...
 Travelling Expenses (if any) £ : : When received, 191...

Committee's Minute FRI. 23 MAR. 1917
 Signed See first entry rpt. attached
Frank L. Sturgeon
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

TUE 26 JUN. 1917
 TUE. 4 SEP. 1917
 FRI. SEP. 14 1917.
 Lloyd's Register Foundation
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