

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 in Olivet
Master Gething Built at Hull By whom built Earle's Co. Ltd
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 (Lam & A. Anderson) belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel D. Colville & Sons
Letter for record 5 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 44 sq ft. and Description of
Safety valves to each boiler two spring loaded Area of each valve 7.06 sq in 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" Main dia. 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 R.R. long. seams R.R. & B.I. Diameter of rivet holes in long. seams 1 3/8" Pitch of rivets 9 1/16"
Pitch of plates or width of butt straps 20 3/8" Per centages of strength of longitudinal joint rivets 85.4 plate 85.9 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 Thickness of plates crown 2 1/16" bottom
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 3/16" 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 1/4" Area supported by each stay 92'5" Working pressure by rules 233 End plates in steam space: Material steel Thickness 1 5/16"
Pitch of stays 19 1/2" x 17 1/2" How are stays secured R.R. Working pressure by rules 225 Material of stays steel Diameter at smallest part 7 1/4"
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
Over 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"
Pitch of tubes 4 1/2" x 4" Material of tube plates steel Thickness: Front 1 1/32" Back 7/8" Mean pitch of stays 8 1/2" Pitch across wide
Over 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 1/2" 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 13 1/4"
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 rivet
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,
Manufacturer.

Is the approved plan of boiler forwarded herewith yes
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
Travelling Expenses (if any) £ See 1st entry When received, 191

Committee's Minute
Signed See first entry rpt attached

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

FRI. 23 MAR. 1917
TUE. 26 JUN. 1917
TUE. 4 SEP. 1917
FRI. SEP. 14 1917
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