

REPORT ON BOILERS.

No. 34234
NOV 1917

Received at London Office

Date of writing Report 101 When handed in at Local Office 191 Port of Glasgow

No. in Survey held at Glasgow Date, First Survey 24-1-16 Last Survey 26/10/17 191
 Reg. Book. on the S.S. "Actor" (Number of Visits 63) Gross Tons }
 Net Tons }

Master Built at Glasgow By whom built D.W. Henderson & Co. (495) When built 1917
 Engines made at Glasgow By whom made D.W. Henderson & Co. (495) When made 1917
 Boilers made at Glasgow By whom made D.W. Henderson & Co. (495) When made 1917
 Registered Horse Power Owners Messrs J. I. Harrison & Co Port belonging to Liverpool

MULTITUBULAR BOILERS—~~MAIN~~, AUXILIARY OR DONKEY.—Manufacturers of Steel Steel Coy of Scotland

(Letter for record 5) Total Heating Surface of Boilers 1388 Is forced draft fitted no No. and Description of Boilers one single ended Working Pressure 210 Tested by hydraulic pressure to 430 Date of test 20/8/17

No. of Certificate 3583 Can each boiler be worked separately yes Area of fire grate in each boiler 57 No. and Description of safety valves to each boiler pair direct spring Area of each valve 4.9 Pressure to which they are adjusted 220

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 or uptakes and bunkers or woodwork about 2'-3" Mean dia. of boilers 3'-0" Length 10'-6"

Material of shell plates steel Thickness 1 7/16 Range of tensile strength 28 & 32 Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams lap double long. seams butt triple Diameter of rivet holes in long. seams 3/16 Pitch of rivets 9 1/8

Lap of plates or width of butt straps 2 1/2 Per centages of strength of longitudinal joint plate 85.4 Working pressure of shell by rules 251 Size of manhole in shell 16" x 12" Size of compensating ring 31" x 35" No. and Description of Furnaces in each boiler 2 minimum Material steel Outside diameter 36 7/16 Length of plain part 3 5/16 Thickness of plates crown 1 1/2 bottom 1 3/4

Description of longitudinal joint welded No. of strengthening rings 1 Working pressure of furnace by the rules 218 Combustion chamber plates: Material steel Thickness: Sides 1/16 Back 1/16 Top 1/16 Bottom 1" Pitch of stays to ditto: Sides 8 1/2" x 8 1/2" Back 8 1/2" x 8 1/2" Top 9" x 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 225 Material of stays steel Diameter at smallest part 1 9/16 Area supported by each stay 72.5 Working pressure by rules 234 End plates in steam space: Material steel Thickness 1 3/8 Pitch of stays 20 1/2" x 18 1/2" How are stays secured 27 nuts Working pressure by rules 242 Material of stays steel Diameter at smallest part 9.42

Area supported by each stay 351 Working pressure by rules 256 Material of Front plates at bottom steel Thickness 1 1/4 Material of Lower back plate steel Thickness 1 5/16 Greatest pitch of stays 14 1/4 Working pressure of plate by rules 220 Diameter of tubes 3 1/4 Pitch of tubes 4 1/2" x 4 1/2" Material of tube plates steel Thickness: Front 1 1/4 Back 3/32 Mean pitch of stays 9 Pitch across wide water spaces 14 1/2 Working pressures by rules 222 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 8 1/2" x 1 double Length as per rule 32 1/2 Distance apart 9 Number and pitch of Stays in each (3) 8 1/2"

Working pressure by rules 239 Superheater or Steam chest; how connected to boiler none Can the superheater be shut off and the boiler worked separately no

Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes 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 DAVID & Wm HENDERSON & CO., LTD
 Manufacturer.
 Gen. Manager, Glasgow Works

Dates of Survey: During progress of work in shops - - - See accompanying Report. Is the approved plan of boiler forwarded herewith yes
 while building - - - See accompanying Report. Total No. of visits _____

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey the materials and workmanship are of good description, it has been well fitted on board & tried under steam

Survey Fee £ : : When applied for, 191
 Travelling Expenses (if any) £ : : When received, 191

Committee's Minute GLASGOW 6. - NOV. 1917
 Assigned See accompanying machinery report.

A. McLeod & Wm. H. Copeman
 Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation
 160-0182