

REPORT ON BOILERS.

No. 41784

Received at London Office

WED MAR 15 1922

Date of writing Report 24. 8. 1921 When handed in at Local Office 24. 8. 1921 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 14th Nov 1920 Last Survey 18th Aug 1921
 Reg. Book. 76396 on the Donkey Boiler for hags No 1008. S.S. Vigor (Number of Visits 40) } Gross Tons }
 Master Spezia Built at Spezia By whom built Canheri Navali della Spezia When built
 Engines made at Glasgow By whom made McKie & Bachi. When made 1922
 Boilers made at Glasgow By whom made A. Stephen & Sons. Ltd. Boilers J.27 When made 1921
 Registered Horse Power _____ Owners _____ Port belonging to _____

MULTITUBULAR BOILERS — ~~MAIN, AUXILIARY OR~~ DONKEY. — Manufacturers of Steel Steel Co of Scotland & Beardmore Co

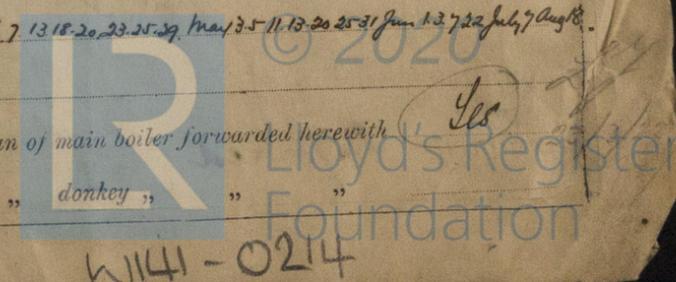
(Letter for record S) Total Heating Surface of Boilers 1202 sq ft Is forced draft fitted No No. and Description of Boilers One single ended multitubular Working Pressure 120 Tested by hydraulic pressure to 240 Date of test 29/4/21
 No. of Certificate 15810 Can each boiler be worked separately _____ Area of fire grate in each boiler 31.6 sq ft No. 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 125 lb/sq in
 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 INT Mean dia. of boilers 11'-2" Length 10'-1 1/8"
 Material of shell plates S Thickness 1 1/16" Range of tensile strength 28-32 tons Are the shell plates welded or flanged No
 Descrip. of riveting: cir. seams L.D.R long. seams D.R. D Straps Diameter of rivet holes in long. seams 7/8" Pitch of rivets 4 3/4"
 Lap of plates or width of butt straps 9 3/4" Per centages of strength of longitudinal joint rivets 82 Working pressure of shell by plate 81.5
 rules 120 lbs Size of manhole in shell 16x12" Size of compensating ring 28x24 x 1 1/16" No. and Description of Furnaces in each boiler Two Corrugated Material S Outside diameter 42" Length of plain part top ✓ Thickness of plates crown } 25 1/4" bottom }
 Description of longitudinal joint weld No. of strengthening rings None Working pressure of furnace by the rules 127 Combustion chamber plates: Material S Thickness: Sides 1 1/32" Back 1 1/32" Top 1 1/32" Bottom 1 1/32" Pitch of stays to ditto: Sides 9x8" Back 9x8"
 Top 9x8" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 134 Material of stays S Area at smallest part 119 Area supported by each stay 72 Working pressure by rules 132 End plates in steam space: Material S Thickness 1 3/16"
 Pitch of stays 1 1/2 x 1 5/8" How are stays secured S. Nuts Working pressure by rules 123 Material of stays S Area at smallest part 287
 Area supported by each stay 240 Working pressure by rules 125 Material of Front plates at bottom S Thickness 3/16" Material of Lower back plate S Thickness 1 3/16" Greatest pitch of stays 13 1/2 x 5" Working pressure of plate by rules 185 Diameter of tubes 2 1/2"
 Pitch of tubes 3 3/4" x 3 1/16" Material of tube plates S Thickness: Front 13/16" Back 3/4" Mean pitch of stays 11 3/16" Pitch across wide water spaces 13 1/2" Working pressures by rules 120 Girders to Chamber tops: Material S Depth and thickness of girder at centre 6 x 1 1/2" Length as per rule 25 19/32" Distance apart 8" Number and pitch of Stays in each 2 @ 9"
 Working pressure by rules 122 Steam dome: description of joint to shell _____ % of strength of joint _____
 Diameter _____ Thickness of shell plates _____ Material _____ Description of longitudinal joint _____ Diam. of rivet holes _____
 Pitch of rivets _____ Working pressure of shell by rules _____ Crown plates _____ Thickness _____ How stayed _____

UPERHEATER. Type _____ Date of Approval of Plan _____ Tested by Hydraulic Pressure to _____
 Date of Test _____ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler _____
 Diameter of Safety Valve _____ Pressure to which each is adjusted _____ Is Easing Gear fitted _____

VERTICAL DONKEY BOILER— No. _____ Description _____ Manufacturers of steel _____
 Made at _____ By whom made _____ When made _____ Where fixed _____ Working pressure _____
 Tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____ Fire grate area _____ Description of safety valves _____
 No. of safety valves _____ Area of each _____ Pressure to which they are adjusted _____ If fitted with easing gear _____ If steam from main boilers can enter the donkey boiler _____
 Dia. of donkey boiler _____ Length _____ Material of shell plates _____ Thickness _____ Range of tensile strength _____
 Descrip. of riveting long. seams _____ Dia. of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____
 Lap of plating _____ Per centage of strength of joint Rivets _____ Working pressure of shell by rules _____ Thickness of shell crown plates _____ Plates _____
 Radius of do. _____ No. of Stays to do. _____ Dia. of stays _____ Diameter of furnace Top _____ Bottom _____ Length of furnace _____
 Thickness of furnace plates _____ Description of joint _____ Working pressure of furnace by rules _____ Thickness of furnace crown plates _____
 Radius of do. _____ Stayed by _____ Diameter of uptake _____ Thickness of uptake plates _____
 Thickness of water tubes _____

FOR ALEXANDER STEPHEN & SONS, LIMITED
 The foregoing is a correct description,
 J.W. W. Dmoil Manufacturer.

Dates During progress of work in shops - - - 1920 Nov 14, Dec 8, 17, 21, 27 (1921) Jan 12, 18, 25, 28 Feb 7, 11, 17, 21 Mar 3, 8, 14, 22, 30 Apr 1, 6, 7, 13, 18, 20, 23, 25, 29 May 3, 5, 11, 13, 20, 25, 31 Jun 1, 2, 7, 22 July 7 Aug 8
 Survey while building During erection on board vessel - - -
 Total No. of visits 40 Is the approved plan of main boiler forwarded herewith Yes
 " " " donkey " " " "



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

This boiler has been built under Special Survey and in accordance with the Rules; the materials and workmanship are sound & good, on completion it was tested to 240 lbs water pressure and found satisfactory in all respects.

This Donkey Boiler has been properly fitted on board and has proved satisfactory under steam.

Wm. Lawrence
Glasgow
21/4/23

Certificate (if required) to be sent to
The Surveyors are requested not to write on or below the space for Committee's Minute.

The amount of Entry Fee .. £	When applied for.
Special £19.....
Donkey Boiler Fee £	When received.
Travelling Expenses (if any) £19.....

Charged on March 14

J. S. Little

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute
Assigned Defered

GLASGOW 14 MAR 1922

FRI. MAY. 4 1923



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Foundation