

Rah.

REPORT ON BOILERS.

No. 150/2
26 APR 1926

Received at London Office

Date of writing Report 26-3-1926 When handed in at Local Office 191 Port of Rotterdam
 No. in Survey held at Dordrecht Date, First Survey 19-5-21 Last Survey 11-3-1926
 Reg. Book. on the Boiler No. 50 (Number of Visits 6) Gross Tons }
 Net Tons }
 Master Built at _____ By whom built _____ When built _____
 Engines made at _____ By whom made _____ When made _____
 Boilers made at Dordrecht By whom made L. Abraham When made 1926
 Registered Horse Power _____ Owners _____ Port belonging to _____

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel William Beardmore & Co Ltd.

Letter for record S. Total Heating Surface of Boilers 1412 sq ft Is forced draft fitted no. No. and Description of Boilers SE multitubular Working Pressure 14 kg Tested by hydraulic pressure to 300 lbs Date of test 11/3/26. See also 18/5/26.
 No. of Certificate 035 Can each boiler be worked separately Yes Area of fire grate in each boiler 36.6 sq ft No. and Description of Safety valves to each boiler 2 spring loaded. Area of each valve 64 sq in. Pressure to which they are adjusted 100 lbs 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 or woodwork 12" Mean dia. of boilers 3300 mm Length 3000 mm
 Material of shell plates S.M. steel Thickness 27 mm Range of tensile strength 45-50 kg Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams Lap. 2 x riv. long. seams double butt 3 x riv. Diameter of rivet holes in long. seams 30 mm Pitch of rivets 203 mm
 Lap of plates or width of butt straps _____ Per centages of strength of longitudinal joint rivets 90.5% Working pressure of shell by rules 14.7 kg Size of manhole in shell 440 x 500 mm Size of compensating ring 265 mm x 27 mm No. and Description of Furnaces in each boiler 2 Morrison's Material steel Outside diameter 970 mm Length of plain part _____ Thickness of plates crown 34 mm bottom 31 mm
 Description of longitudinal joint welded No. of strengthening rings none Working pressure of furnace by the rules 14.5 kg Combustion chamber plates: Material S.M. steel Thickness: Sides 10 mm Back 15 mm Top 10 mm Bottom 21 mm Pitch of stays to ditto: Sides 200 x 175 Back 155
 Top 230 x 200 If stays are fitted with nuts or riveted heads Riveted heads Working pressure by rules 15.8 kg Material of stays Steel Diameter at smallest part 32 mm Area supported by each stay 24025 Working pressure by rules 15.3 End plates in steam space: Material Steel Thickness 24 mm Pitch of stays 350 x 470 How are stays secured double nuts Working pressure by rules 20 kg Material of stays Steel Diameter at smallest part 44 mm Area supported by each stay 164500 Working pressure by rules 16.3 kg Material of Front plates at bottom steel Thickness 27 mm Material of Lower back plate steel Thickness 24 mm Greatest pitch of stays 340 mm Working pressure of plate by rules 14.5 kg Diameter of tubes 83 mm Pitch of tubes 100 mm Material of tube plates steel Thickness: Front 27 mm Back 19 mm Mean pitch of stays 166 mm Pitch across wide water spaces 400 mm Working pressures by rules 10 kg Girders to Chamber tops: Material steel Depth and thickness of girder at centre 100 x 2 x 19 mm Length as per rule 675 mm Distance apart 230 mm Number and pitch of Stays in each 2 x 200 mm
 Working pressure by rules 20 kg 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 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 ✓

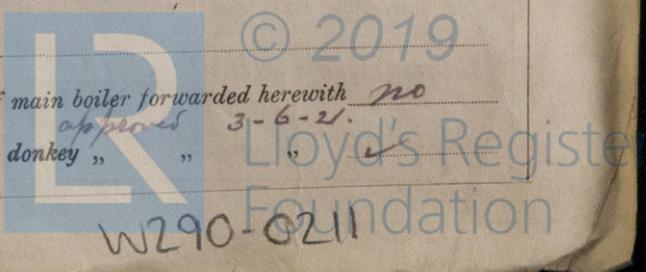
VERTICAL DONKEY BOILER—

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 _____ Plates _____ Working pressure of shell by rules _____ Thickness of shell crown 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 _____

The foregoing is a correct description, Abraham Manufacturer.

Dates of Survey while building { During progress of work in shops - - } 1921 1/5 6/7 - 1925 5/4 - 4/5 - 2/11 - 1926 1/3
 { During erection on board vessel - - } _____
 Total No. of visits 6

Is the approved plan of main boiler forwarded herewith no
 " " " donkey " " 3-6-21



THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THE MARGIN.

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

This boiler has been made under Special Survey in accordance with the approved plan, Secretary's letter and the Society's Rules, material tested as required and workmanship good.

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 .. £	<i>112.00</i>	When applied for,	<i>30/3</i> .. 19 <i>26</i>
Special	£	When received,	<i>6/4</i> .. 19 <i>26</i>
Donkey Boiler Fee	£		
Travelling Expenses (if any) £	<i>0.50</i>		

Committee's Minute
Assigned

TUES. 4 MAY 1926

J. J. Dehoo
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping



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Foundation