

REPORT ON BOILERS.

Received at London Office

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Date of writing Report 28th March 1922 When handed in at Local Office 1st April 22 19 Port of MIDDLESBROUGH
 No. in Survey held at Stockton on Tress Date, First Survey Mar 8th 1921 Last Survey March 28th 1922
 Reg. Book. 515 "IXIA" (Number of Visits 11) Gross Tons 2985 Net Tons 1828
 Master Sunderland Built at Sunderland By whom built Messrs John Blumer & Co (P. 256) When built 1922
 Engines made at Sunderland By whom made J. Dickinson & Sons (No 857) When made 1922
 Boilers made at Stockton By whom made Paley Bros (Boilermakers) Ltd No 5308 When made 1922
 Registered Horse Power 100 Owners J. Robinson Sons Port belonging to Mc Shickle

MULTITUBULAR BOILERS—~~MAIN, AUXILIARY OR~~ DONKEY.—Manufacturers of Steel John Spencer & Son

Letter for record (S) ☒ Total Heating Surface of Boilers 840 sq ft Is forced draft fitted no No. and Description of Boilers 1 Single ended cyl. Multitub Working Pressure 100 lbs Tested by hydraulic pressure to 200 lbs Date of test 28.3.22
 No. of Certificate 6268 Can each boiler be worked separately ☒ Area of fire grate in each boiler 305 sq ft No. and Description of safety valves to each boiler two direct spring Area of each valve 4.91 sq in Pressure to which they are adjusted 100
 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 15" Int. dia. of boilers 10'-0" Length 9'-6"
 Material of shell plates Steel Thickness 9/16" Range of tensile strength 28/32 Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams A.R. lap long. seams 3 inch per pitch Diameter of rivet holes in long. seams 13/16" Pitch of rivets 4 1/2"
 Width of butt straps 8 1/2" x 9/16" Per centages of strength of longitudinal joint 92.0 Working pressure of shell by plate 82.0
 Rules 105 lb Size of manhole in shell 19" x 15" Size of compensating ring 4" x 3/4" inch No. and Description of Furnaces in each boiler 2 Plain Material Steel Outside diameter 38" Length of plain part top 41 1/4" Thickness of plates crown 9/16" bottom 9 1/4"
 Description of longitudinal joint Weld No. of strengthening rings none Working pressure of furnace by the rules 105 lb Combustion chamber plates: Material Steel Thickness: Sides 5/8" Back 1/2" Top 5/8" Bottom 5/8" Pitch of stays to ditto: Sides 9" on Back 8 1/4" x 9"
 Top 9" on If stays are fitted with nuts or riveted heads nuts Working pressure by rules 103 lb Material of stays Steel Area at smallest part 1.73 sq in Area supported by each stay 90 sq in Working pressure by rules 154 lb End plates in steam space: Material Steel Thickness 13/16"
 Pitch of stays 15" x 1 1/2" How are stays secured Weld Working pressure by rules 106 lb Material of stays Steel Area at smallest part 3.26 sq in
 Area supported by each stay 313 sq in Working pressure by rules 108 lb Material of Front plates at bottom Steel Thickness 13/16" Material of lower back plate Steel Thickness 13/16" Greatest pitch of stays 13 1/2" x 9" Working pressure of plate by rules 144 lb Diameter of tubes 3 1/4"
 Pitch of tubes 4 1/2" x 4 1/4" Material of tube plates Steel Thickness: Front 13/16" Back 5/8" Mean pitch of stays 10 1/4" Pitch across wide water spaces 13 1/2" Working pressures by rules 130 lb Girders to Chamber tops: Material Steel Depth and thickness of order at centre 6 1/2" x 1 1/4" Length as per rule 26" Distance apart 9" Number and pitch of Stays in each one
 Working pressure by rules 110 lb Steam dome: description of joint to shell none % 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 —
 Tested by Hydraulic Pressure to —

PERHEATER. 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 —

FOR The foregoing is a correct description,
RILEY BROS. BOILERMAKERS LIMITED.

Manufacturer.

Dates During progress of work in shops -- 1921 Mar 8-14 Apr 5-11-20 Aug 9- Nov 1 Dec 15.
 while During erection on board vessel -- 1922 Mar 13-22-28.

Is the approved plan of boiler forwarded herewith yes
 Total No. of visits 11

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under Special Survey: of good material workmanship and on completion was tested by hydraulic pressure with satisfactory results. It has been provided to Sunderland for mounting & fitting on board.
SUNDERLAND The boiler has been satisfactorily fitted to the vessel and its safety valves adjusted under steam.

Survey Fee ... £ 5 : 12 : When applied for, monthly etc
 Travelling Expenses (if any) £ : : When received, 19

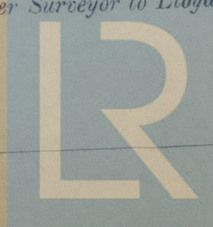
Wm Morrison Mr Lewis Sedans
 Engineer Surveyor to Lloyd's Register of Shipping.

WFD. 9 AUG. 1922

Committee's Minute
 assigned

See Sld 28385

Ws'83-0085



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Foundation