

REPORT ON BOILERS.

No. 9978.

Received at London Office TUE. 18 DEC. 1917

Date of writing Report 1917 When handed in at Local Office 15.12.17 Port of Huddlesbrough
 No. in Survey held at Stockton-on-Tees Date, First Survey 21st June/17 Last Survey 14th Dec. 1917
 Reg. Book. on the S.S. "Maindy Dene" (S.S. No. 191) Tons { Gross Net
 Master Built at Stockton By whom built Messrs Craig Taylor & Co When built
 Engines made at Sunderland By whom made N.E. Marine Eng Co When made 1918
 Boilers made at Stockton By whom made Messrs Riley Bros Ltd (No 4973) When made 1917
 Registered Horse Power Owners Port belonging to

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

(Letter for record (S)) Total Heating Surface of Boilers 880 sq ft Is forced draft fitted no No. and Description of Boilers One single ended Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 14.12.17
 No. of Certificate 5844 Can each boiler be worked separately Area of fire grate in each boiler 29 sq ft No. and Description of safety valves to each boiler 2 direct spring Area of each valve 3.98 Pressure to which they are adjusted 185 lbs
 Are they fitted with easing gear yes In case of any donkey boilers, state whether steam from main boilers can enter the any donkey boiler yes
 Smallest distance between boilers or uptakes and bunkers 1'-6" Inside Mean dia. of boilers 10'-0" Length 10'-0"
 Material of shell plates Steel Thickness 27/32 Range of tensile strength 28-32 Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams 2 R. lap long. seams 2 B-3 Riv Diameter of rivet holes in long. seams 15/16 Pitch of rivets 7"
 Lap of plates or width of butt straps 13 1/2 x 13/16 Per centages of strength of longitudinal joint rivets 87.3 Working pressure of shell by rules 183 Size of manhole in shell 19" x 15" Size of compensating ring 7" x 1" No. and Description of Furnaces in each boiler 2 plain Material Steel Outside diameter 36" Length of plain part 74 1/2" Thickness of plates 23/32 79 mean
 Description of longitudinal joint Weld No. of strengthening rings none Working pressure of furnace by the rules 183 Combustion chamber plates: Material Steel Thickness: Sides 21/32 Back 4/16 Top 21/32 Bottom 7/8 Pitch of stays to ditto: Sides 10" x 8" Back 9 1/2" x 9"
 Top 10" x 8" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 180 Material of stays Steel Diameter at smallest part 2.03 Area supported by each stay 85.5 Working pressure by rules 214 End plates in steam space: Material Steel Thickness 1"
 Pitch of stays 19" x 12 1/4" How are stays secured nuts & washers Working pressure by rules 181 Material of stays Steel Diameter at smallest part 5.05
 Area supported by each stay 264 Working pressure by rules 199 Material of Front plates at bottom Steel Thickness 1" Material of Lower back plate Steel Thickness 1" Greatest pitch of stays 14" x 9" Working pressure of plate by rules 249 Diameter of tubes 3 1/4"
 Pitch of tubes 4 3/8" x 4 1/4" Material of tube plates Steel Thickness: Front 1" Back 3/4" Mean pitch of stays 10 1/8" Pitch across wide water spaces 14" Working pressures by rules 182 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8" x 1 1/2" Length as per rule 28" Distance apart 10" Number and pitch of Stays in each 2 @ 8"
 Working pressure by rules 182 Superheater or Steam chest: how connected to boiler none 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

SURVEY REQUEST NO. 1349. ATTACHED.

FOR The foregoing is a correct description, RILEY BROS. (BOILERMAKERS) LIMITED. Manufacturer. SECRETARY.

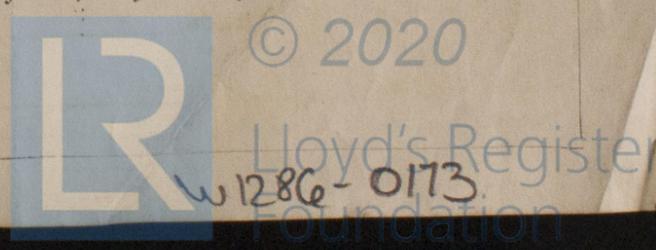
Dates of Survey { During progress of work in shops - - 1917 June 21. 25. 27. 29. July 10. Sep. 10. Is the approved plan of boiler forwarded herewith yes
 while { During erection on board vessel - - - } Nov 19. 23. 27. Dec 5. 10. 14
 building { } Total No. of visits 12

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey: is of good material and workmanship and on completion was tested by hydraulic pressure with satisfactory results. The boiler is to be fitted on board at this port. The boiler has been satisfactorily secured on board, examined under steam and safety valves adjusted.

Survey Fee £ 2 - 19 - 0 When applied for, Monthly a/c
 Travelling Expenses (if any) £ : : When received, 191

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

Committee's Minute FRI. 10 MAY. 1918
 Assigned All fee rph. attached
Ed 27/86 Ind. 10163



If not, state whether, and when, one will be sent

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