

# REPORT ON BOILERS.

No. 8386  
MON. SEP. 13 1920

Date of writing Report 9<sup>th</sup> Sept 20 When handed in at Local Office 191 Port of Belfast  
 No. in Survey held at Belfast Date, First Survey 5<sup>th</sup> July 1918 Last Survey 2<sup>nd</sup> Sept 1920  
 Reg. Book. T.S.S. Yorkshire (Number of Visits 106) Gross 10184  
 on the T.S.S. Yorkshire Tons } Net 6266  
 Master G.C.B. Millson Built at Belfast By whom built Harland & Wolff L<sup>td</sup> When built 1920  
 Engines made at Belfast By whom made - When made -  
 Boilers made at - By whom made - When made -  
 Registered Horse Power ✓ Owners Reibly Bros Port belonging to Liverpool

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel D. Colville & Sons L<sup>td</sup>

Letter for record S Total Heating Surface of Boilers 5828 sq ft. Is forced draft fitted No No. and Description of  
 boilers 2 - Single End Cylindrical Working Pressure 215 lbs Tested by hydraulic pressure to 430 lbs Date of test 23-6-19  
 No. of Certificate 548 Can each boiler be worked separately Yes Area of fire grate in each boiler 70 sq ft. No. and Description of  
 safety valves to each boiler 2 - Direct Spring Area of each valve 9.62 sq" Pressure to which they are adjusted 215 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 About 6 ft. Mean dia. of boilers 16'-3" Length 11'-3"  
 Material of shell plates Steel Thickness 1 1/4" Range of tensile strength 29-33 tons Are the shell plates welded or flanged No  
 Descrip. of riveting: cir. seams Lap Abbr. long. seams Butt Diameter of rivet holes in long. seams 1 3/4" Pitch of rivets 10 1/2"  
 Width of butt straps 24 3/8" Per centages of strength of longitudinal joint rivets 97.5 Working pressure of shell by  
 rules 257 lbs Size of manhole in shell 16" x 12" Size of compensating ring McNeil's No. and Description of Furnaces in each  
 boiler 4 - Morrison Material Steel Outside diameter 46 5/8" Length of plain part top ✓ Thickness of plates crown 4"  
 bottom 7" Description of longitudinal joint Weld No. of strengthening rings ✓ Working pressure of furnace by the rules 243 lbs Combustion chamber:  
 Material Steel Thickness: Sides 5" Back 5" Top 5" Bottom 1" Pitch of stays to ditto: Sides 8" x 7 1/4" Back 7 1/2" x 7 1/4"  
 Stays are fitted with nuts or riveted heads Nuts Working pressure by rules 218 lbs Material of stays Steel Diameter at  
 smallest part 1 7/8" Supported by each stay 62 sq" Working pressure by rule 255 lbs End plates in steam space: Material Steel Thickness 1 1/8"  
 How are stays secured Screwed into plates & single nut Working pressure by rules 247 lbs Material of stay Steel Diameter at smallest part 5.9 sq"  
 Area supported by each stay 248 sq" Working pressure by rules 247 lbs Material of Front plates at bottom Steel Thickness 7/8" Material of  
 cover back plate Steel Thickness 7/8" Greatest pitch of stays 12 1/4" Working pressure of plate by rule 292 lbs Diameter of tubes 2 3/4"  
 Pitch of tubes 4" x 4" Material of tube plate Steel Thickness: Front 7/8" Back 4 3/8" Mean pitch of stays 8" x 8" Pitch across wide  
 inter spaces 13 3/4" Working pressures by rules 287 lbs with 5 Double Girders to Chamber tops: Material Steel Depth and thickness of  
 girder at centre 9" x (7 1/2" x 2) Length as per rule 31 1/2" Distance apart 7 1/4" x 7" Number and pitch of Stays in each 3-7 3/4"  
 Working pressure by rules 272 lbs 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  
 Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness  
 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 HARLAND & WOLFF Ltd  
J.E. Stebbins Manufacturer.

Dates } During progress of } See other sheet Is the approved plan of boiler forwarded herewith  
 Survey } work in shops - - }  
 while } During erection on }  
 loading } board vessel - - }

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

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

Committee's Minute  
 Assigned  
 FRI. SEP. 24 1920  
 TUE. DEC. 14 1920  
 WED. AUG. 4 1921  
 W450-0148 1/2  
 Lloyd's Register Foundation

