

# REPORT ON BOILERS.

No. 13939

Received at London Office **MUN. 6 JUN 1910**

Date of writing Report 3/6/10 19 When handed in at Local Office 4/6/10 19 Port of West Hartlepool  
 No. in Survey held at West Hartlepool Date, First Survey 11<sup>th</sup> Feb Last Survey 3<sup>rd</sup> June 1910  
 Reg. Book. on the Steel Steamer "Barpaqus" (Number of Visits 34) } Gross Tons }  
 } Net Tons }  
 Built at West Hartlepool By whom built W Gray & Co Ltd When built 1910  
 By whom made \_\_\_\_\_ when made \_\_\_\_\_  
 Boilers made at West Hartlepool By whom made Central Marine & Wks when made 1910  
 Owners J & C Lawson Ltd. Port belonging to London

Lloyd's 40771

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel J Spencer & Sons

Letter for record R Total Heating Surface of Boilers 1074 Is forced draft fitted no No. and Description of Boilers one single ended Working Pressure 180 lb Tested by hydraulic pressure to 360 lb Date of test 19/4/10  
 No. of Certificate 3192 Can each boiler be worked separately ✓ Area of fire grate in each boiler 31.25 sq ft No. and Description of Safety valves to each boiler 1 in Spring Area of each valve 7.07 sq in Pressure to which they are adjusted 185 lb  
 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 20" Mean dia. of boilers 11.0 Length 10.6  
 Material of shell plates Steel Thickness 3/32 Range of tensile strength 27/30 Are the shell plates welded or flanged both  
 Description of riveting: cir. seams \_\_\_\_\_ long. seams all chip Diameter of rivet holes in long. seams 1" Pitch of rivets 6 13/16  
 Width of plates or width of butt straps 14 1/2" Per centages of strength of longitudinal joint rivets 88.5-7 Working pressure of shell by plate 85.3%  
 Size of manhole in shell 16" x 12" Size of compensating ring 8" x 1" No. and Description of Furnaces in each  
 Material Steel Outside diameter 40 1/8" Length of plain part top 11 1/2" Thickness of plates bottom 8 1/16"  
 No. of strengthening rings none Working pressure of furnace by the rules 188 lb Combustion chamber  
 Material Steel Thickness: Sides 10 1/16" Back 10 1/16" Top 10 1/16" Bottom 13 1/16" Pitch of stays to ditto: Sides 9" x 8" Back 8 1/4" x 7 1/4"  
 If stays are fitted with nuts or riveted heads none Working pressure by rules 181 lb Material of stays Iron Diameter at  
 smallest part 1 1/2" Area supported by each stay 9" x 8 1/2" Working pressure by rules 180 lb End plates in steam space: Material Steel Thickness 3/16"  
 How are stays secured all nut Working pressure by rules 186 lb Material of stays Steel Diameter at smallest part 2.25"  
 supported by each stay 15" x 15" Working pressure by rules 190 lb Material of Front plates at bottom Steel Thickness 1" Material of  
 back plate Steel Thickness 3/16" Greatest pitch of stays 21" Working pressure of plate by rules 180 lb Diameter of tubes 3 1/2"  
 Material of tube plates Steel Thickness: Front 1" Back 12/16" Mean pitch of stays 9" Pitch across wide  
 spaces 14 1/4" Working pressures by rules 189 lb Girders to Chamber tops: Material Steel Depth and thickness of  
 at centre 8" x 1 1/2" Length as per rule 28 1/8" Distance apart 8' 4" 7 1/2" Number and pitch of Stays in each none 9"  
 Superheater or Steam chest; how connected to boiler \_\_\_\_\_ Can the superheater be shut off and the boiler worked  
 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 \_\_\_\_\_  
 Distance between rings \_\_\_\_\_ Working pressure by rules \_\_\_\_\_ End plates: Thickness \_\_\_\_\_ How stayed \_\_\_\_\_  
 Working pressure of end plates \_\_\_\_\_ Area of \_\_\_\_\_ Are they fitted with easing gear \_\_\_\_\_  
 (W. GRAY & Co., Ltd.)

The foregoing is a correct description,  
John Williams Manufacturer.

During progress of work in shops - - - Feb 11, 22, 24, 25, 28, Mar 1, 2, 3, 4, 7, 8, 9, 10, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, Apr 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, May 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, June 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, July 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, Aug 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, Sept 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, Oct 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, Nov 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, Dec 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1910  
 Is the approved plan of boiler forwarded herewith Yes  
 Total No. of visits 34

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) Workmanship good  
This boiler has been constructed under special survey and found to be in accordance with the Society's Rules

Survey Fee ... £ 3 : 11 : 6 When applied for. 4-6- 1910  
 of British & Foreign ... (if any) £ : : When received. 11-6- 1910

James Jones  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

JUN. 14 JUN 1910

