

REPORT ON BOILERS.

No. 9902

Received at London Office 23 JAN 1928

Date of writing Report 191 When handed in at Local Office 21st Jan. 1928 Port of Beeston
 No. in Survey held at Beeston Date, First Survey See first entry incl. report. Last Survey 191
 Reg. Book. No 291 on the Steel S. "CHESAPEAKE" (Number of Visits) Gross Tons } Net
 Master Built at Beeston By whom built Workman Clark & Co. Ltd. When built 1928
 Engines made at Beeston By whom made Workman Clark & Co. Ltd. When made 1928
 Boilers made at Beeston By whom made Workman Clark & Co. Ltd. When made 1928
 Registered Horse Power Owners Anglo American Oil Co. Ltd. Port belonging to Beeston

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

(Letter for record 5. 158) Total Heating Surface of Boilers 2395 sq ft Is forced draft fitted Yes No. and Description of Boilers One S.E. cyl. waste heat + O.F. Working Pressure 150 lb. Tested by hydraulic pressure to 275 lb. Date of test 4. 11. 27
 No. of Certificate 914 Can each boiler be worked separately Yes Area of fire grate in each boiler 61 sq ft No. and Description of safety valves to each boiler Two special H.K. Spring loaded Area of each valve 4.9 sq in Pressure to which they are adjusted 150 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 and bunkers or woodwork over 5'0" Mean dia. of boilers 15 1/2" Length 11'6"
 Material of shell plates Steel Thickness 29/32 Range of tensile strength 28-32 tons Are the shell plates welded or flanged No.
 Descrip. of riveting: cir. seams double long. seams Keble. d.b.s. Diameter of rivet holes in long. seams 29/32 Pitch of rivets 6 3/8
 Lap of plates or width of butt straps 13 5/8 Per centages of strength of longitudinal joint rivets 85.96 plate 80.78 Working pressure of shell by rules 152 lb. Size of manhole in shell 15" x 19" Size of compensating ring 32 1/4" x 32 5/8" x 29/32 No. and Description of Furnaces in each boiler Two narrow Material Steel Outside diameter 38" Length of plain part top bottom Thickness of plates crown bottom 1/2"
 Description of longitudinal joint welded. No. of strengthening rings Working pressure of furnace by the rules 189 lb. Combustion chamber plates: Material Steel Thickness: Sides 9/16" Back 1/16" Top 9/16" Bottom 1/16" Pitch of stays to ditto: Sides 8 1/2" x 7 1/4" Back 8" x 7 1/4"
 Top 9 1/2" x 7" If stays are fitted with nuts or riveted heads both Working pressure by rules 158 lb. Material of stays Steel Diameter at smallest part 1 3/8" Area supported by each stay 62 sq in Working pressure by rules 163 lb. End plates in steam space: Material Steel Thickness 1 1/8"
 Pitch of stays 17" x 19" How are stays secured double nut Working pressure by rules 160 lb. Material of stays Steel Diameter at smallest part 2 1/2"
 Area supported by each stay 323 sq in Working pressure by rules 170 lb. Material of Front plates at bottom Steel Thickness 3/4" Material of Lower back plate Steel Thickness 13/16" Greatest pitch of stays 13 1/2" x 7 3/4" Working pressure of plate by rules 222 lb. Diameter of tubes 2 1/2"
 Pitch of tubes 3 3/8" x 3 3/4" Material of tube plates Steel Thickness: Front 7/8" Back 3/4" Mean pitch of stays 9 1/4" Pitch across wide water spaces 13 3/8" x 7 1/4" Working pressures by rules Front 163 lb. Back 235 lb. Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8" - 1 1/2" Length as per rule 31 9/16" Distance apart 9 1/2" Number and pitch of Stays in each Three - 7"
 Working pressure by rules 154 lb. 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

The foregoing is a correct description, FOR WORKMAN, CLARK & CO., LIMITED. Manufacturer.

Is the approved plan of boiler forwarded herewith

Total No. of visits

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

This boiler was constructed under special survey. The materials workmanship are sound & good. It has been efficiently installed on the vessel & the safety valves were adjusted under steam.

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

R. Lee Amess. Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute Assigned See Sp. rpt. attached

TUES. 31 JAN 1928

