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REPORT ON BOILERS.

No. 15896

Received at London Office FRI. 1 JUL 1921

Date of writing Report 24th June 1921 When handed in at Local Office 29th June 1921 Port of WEST HARTLEPOOL
 No. in Survey held at West Hartlepool Date, First Survey 30th May 1919 Last Survey 18th July 1919
 Reg. Book. on the Boiler No. R 279. S.S. "HARTBRIDGE" (Number of Visits 14) Gross Tons }
 Net Tons }
 Master _____ Built at _____ By whom built _____ When built _____
 Engines made at _____ By whom made _____ When made _____
 Boilers made at West Hartlepool By whom made Central Marine Eng. Works Ltd When made 1919
 Registered Horse Power _____ Owners _____ Port belonging to _____

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Stewarts & Lloyds
 (Letter for record S) Total Heating Surface of Boilers 1714 sq ft Is forced draft fitted no No. and Description of Boilers One, single ended Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 18.7.19
 No. of Certificate 3539 Can each boiler be worked separately yes Area of fire grate in each boiler 5.3 sq ft No. and Description of safety valves to each boiler 2 Cockburns high lift Area of each valve 5 fitted 9.8 sq ft Pressure to which they are adjusted 185 lbs
 Are they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 24" Int. Mean dia. of boilers 14'-0" Length 10'-6"
 Material of shell plates Steel Thickness 1 7/16" Range of tensile strength 27/30 Are the shell plates welded or flanged yes
 Riveting: cir. seams SR Lap long. seams J.R. & B.S. Diameter of rivet holes in long. seams 1 1/4" Pitch of rivets 8 3/4"
 plates or width of butt straps 18 1/2" Per centages of strength of longitudinal joint rivets 88 Working pressure of shell by plate 85.8
184 lbs Size of manhole in shell 12" x 16" Size of compensating ring 2'-4" x 2'-8" No. and Description of Furnaces in each 3 Deightons Material Steel Outside diameter 3'-7 1/8" Length of plain part top 9" Thickness of plates bottom 7/16"
 Description of longitudinal joint welded No. of strengthening rings 1 Working pressure of furnace by the rules 204 Combustion chamber: Material Steel Thickness: Sides 2 1/2" Back 2 1/2" Top 2 1/2" Bottom 7/8" Pitch of stays to ditto: Sides 8 3/4" x 9 3/8" Back 8" x 9 3/8"
2 3/4" x 9" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 181 Material of stays Steel Area Diameter at
 at part 1.787 Area supported by each stay 8" x 9 3/8" Working pressure by rules 214 End plates in steam space: Material Steel Thickness 1 1/4"
 of stays 2 1/8" x 1 1/8" How are stays secured D. nuts Working pressure by rules 183 Material of stays Steel Diameter at smallest part 2.911"
 supported by each stay 19" x 20" Working pressure by rules 182 Material of Front plates at bottom Steel Thickness 3 1/2" Material of back plate Steel Thickness 1 5/16" Greatest pitch of stays 16" x 8 1/2" Working pressure of plate by rules 185 Diameter of tubes 3"
 of tubes 4 1/4" x 4 1/8" Material of tube plates Steel Thickness: Front 3 1/2" Back 3 1/4" Mean pitch of stays 12 3/4" x 8 1/4" Pitch across wide spaces 13 3/4" Working pressures by rules 190 Girders to Chamber tops: Material Steel Depth and thickness of at centre 10" x 1 1/2" Length as per rule 34 13/32" Distance apart 9" Number and pitch of Stays in each Three 8 3/4"
 Working pressure by rules 200 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 _____
 lined 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
FOR THE CENTRAL MARINE ENGINE WORKS,
 (Incorporated in 1918)
 The foregoing is a correct description,
W. S. L. Manufacturer.

During progress of work in shops - - - 1919 May 30, June 2, 3, 5, 11, 16, 19, 20, 25, July 4, 14, 15, 16 Is the approved plan of boiler forwarded herewith yes
 During erection on board vessel - - - _____ Total No. of visits 14.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built for Special Survey. The materials and workmanship are good. At completion it satisfactorily withstood the hydraulic test.

Survey Fee ... £ 5 : 14 : _____ When applied for, 29th 6/1921
 Travelling Expenses (if any) £ : : _____ When received, 12.7.1921

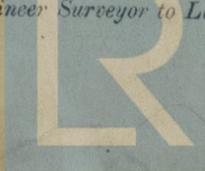
R. D. Philston
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Not for classing Committee

FRI. 6 MAY 1921



Lloyd's Register Foundation

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