

REPORT ON BOILERS.

No. 14140

Received at London Office

Date of writing Report 12 April 1911 When handed in at Local Office 18 April 1911 Port of West Hartlepool
 No. in Survey held at West Hartlepool Date, First Survey 16th Nov. 1910 Last Survey 13 April 1911
 Reg. Book. on the Steel Steamer "Horns B" (Number of Visits 41) } Gross Tons }
 Master Built at West Hartlepool By whom built W Gray & Co Ltd When built 1911
 Engines made at West Hartlepool By whom made Central Marine & Water when made 1911
 Boilers made at West Hartlepool By whom made Central Marine & Water when made 1911
 Registered Horse Power _____ Owners _____ Port belonging to Belgen

Lance R 206

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR DONKEY.~~ —Manufacturers of Steel J. Spencer Tom
 (Letter for record S) Total Heating Surface of Boilers 846 sq ft Is forced draft fitted no No. and Description of Boilers Single Ended Working Pressure 100 lb Tested by hydraulic pressure to 200 lb Date of test 9/2/11.
 No. of Certificate 3225 Can each boiler be worked separately no Area of fire grate in each boiler 29 sq ft No. and Description of safety valves to each boiler 1 in opening Area of each valve 7.07 Pressure to which they are adjusted 105 lb
 Are they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no
 Smallest distance between boilers or uptakes and bunkers or woodwork 20 Mean dia. of boilers 11.0 Length 10.0
 Material of shell plates Steel Thickness 2 1/32 Range of tensile strength 26-30 Are the shell plates welded or flanged both
 Descrip. of riveting: cir. seams no long. seams all chip Diameter of rivet holes in long. seams 1 1/16 Pitch of rivets 2 9/16
 Lap of plates or width of butt straps 10 Per centages of strength of longitudinal joint rivets 76.4 Working pressure of shell by rules 100 lb Size of manhole in shell 16.12 Size of compensating ring 30.26 No. and Description of Furnaces in each boiler 1 in chain Material Steel Outside diameter 4 1/2 Length of plain part 6.1 1/2 Thickness of plates 17/32
 Description of longitudinal joint beaded No. of strengthening rings no Working pressure of furnace by the rules 101 lb Combustion chamber plates: Material Steel Thickness: Sides 1/2 Back 1/2 Top 1/2 Bottom 10/16 Pitch of stays to ditto: Sides 9.8 1/2 Back 8 1/2
 Top 9.8 1/2 If stays are fitted with nuts or riveted heads both Working pressure by rules 112 lb Material of stays Steel Diameter at smallest part 1.13 Area supported by each stay 9.8 1/2 Working pressure by rules 105 lb End plates in steam space: Material Steel Thickness 13/16
 Pitch of stays 16.15 1/2 How are stays secured all nut Working pressure by rules 101 lb Material of stays Steel Diameter at smallest part 1.986
 Area supported by each stay 16.15 1/2 Working pressure by rules 105 lb Material of Front plates at bottom Steel Thickness 13/16 Material of Lower back plate Steel Thickness 13/16 Greatest pitch of stays 13 1/2 Working pressure of plate by rules 100 lb Diameter of tubes 3 1/2
 Pitch of tubes 4 1/2 Material of tube plates Steel Thickness: Front 12/16 Back 10/16 Mean pitch of stays 13 1/2 Pitch across wide water spaces 14 1/4 Working pressures by rules 106 lb Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 6 1/2 x 1 1/4 Length as per rule 28 1/2 Distance apart 8 1/2 Number and pitch of Stays in each 4 in 9
 Working pressure by rules 115 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 _____

FOR THE CENTRAL MARINE ENGINE WORKS,
(W. GRAY & Co., LD.)

The foregoing is a correct description,

John Williams

Manufacturer.

Dates of Survey } During progress of work in shops - - } Nov. 16, 17, 22, 24, 26, 28, 29, 30, Dec. 1, 5, 8, 9, 12, 13, 14, 15, 16, 19, 20, 23 Is the approved plan of boiler forwarded herewith yes
 while building } During erection on board vessel - - - } Jan. 4, 5, 6, 9, 10, 12, 13, 16, 20, 23, 24, 25, 26, 27, 30, 31, Feb. 1, 2, 8, 9, 15. Total No. of visits 41
 Assistant Manager.

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

This Donkey Boiler has been constructed under special survey in accordance with the approved Rules & is tested by hydraulic pressure and has efficiently fitted on board the above steamer.

Survey Fee ... £ 2 : 2 : } When applied for, 19. 4. 19. 11
 Travelling Expenses (if any) £ : : } When received, 19. 4. 19. 11

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

Committee's Minute FRI. 21 APR 1911

Assigned see minute on Hpl RP
14140 attached



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