

Rpt. 5a.

REPORT ON BOILERS.

No. 72049.

Received at London Office

Date of writing Report 30th June 1919 When handed in at Local Office 02 July 1919 Port of NEWCASTLE-ON-TYNE
 No. in Survey held at Newcastle Date, First Survey 18th Mar 1919 Last Survey 18th June 1919
 Reg. Book. on the STANDARD COASTER "AFON GWILLI" (Number of Visits 11) Gross Tons Net Tons
 Master Built at Southampton By whom built Camper & Nicholson L^{td} When built 1919
 Engines made at North Shields By whom made Shields L^{td} & Dry Dock Co. L^{td} When made 1919
 Boilers made at Newcastle By whom made Wallsend Slip & Eng Co 325B When made 1919
 Registered Horse Power 129 Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel John Spence & Sons
 (Letter for record S) Total Heating Surface of Boilers 2190 sq ft Is forced draft fitted no No. and Description of

Boilers Two, single-ended Working Pressure 180 lbs Tested by hydraulic pressure to 320 lbs Date of test 7.6.19

No. of Certificate 9241 Can each boiler be worked separately Area of fire grate in each boiler 32 sq ft No. and Description of safety valves to each boiler Area of each valve Pressure to which they are adjusted

Are they fitted with easing gear 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 Mean dia. of boilers 11' 0" Length 10' 6"

Material of shell plates Steel Thickness 29/32" Range of tensile strength 28 1/2 - 32 1/2 Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams S. Lap long. seams BS. Y. Rivet Diameter of rivet holes in long. seams 1" Pitch of rivets 6 3/4"

Lap of plates or width of butt straps 14 3/4" Per centages of strength of longitudinal joint rivets 95.6 Working pressure of shell by plate 85.18

rules 181 lbs Size of manhole in shell 16" x 12" Size of compensating ring McNeil No. and Description of Furnaces in each boiler 2 - plain Material Steel Outside diameter 40" Length of plain part 6' 6" Thickness of plates 25" crown 32" bottom

Description of longitudinal joint Welded No. of strengthening rings Working pressure of furnace by the rules 187 lbs Combustion chamber plates: Material Steel Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 7/8" Pitch of stays to ditto: Sides 9' x 8 1/4" Back 8 5/8' x 8 5/8"

Top 9' x 8' If stays are fitted with nuts or riveted heads nuts Working pressure by rules 183 lbs Material of stays Steel Area at smallest part 1.73 sq ft Area supported by each stay 74.4 sq ft Working pressure by rules 209 lbs End plates in steam space: Material Steel Thickness 15/16"

Pitch of stays 15' x 15' How are stays secured S. n. w. Working pressure by rules 185 lbs Material of stays Steel Area at smallest part 4.11 sq ft

Area supported by each stay 225 sq ft Working pressure by rules 190 lbs Material of Front plates at bottom Steel Thickness 15/16" Material of Lower back plate Steel Thickness 15/16" Greatest pitch of stays 14' Working pressure of plate by rules 224 lbs Diameter of tubes 3 1/4"

Pitch of tubes 4 1/2' x 4 3/4' Material of tube plates Steel Thickness: Front 15/16" Back 13/16" Mean pitch of stays 10' Pitch across wide water spaces 13 1/2" Working pressures by rules 185 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 7 1/4' x 1 3/4' Length as per rule 30 11/16" Distance apart 8" Number and pitch of Stays in each 2.9'

Working pressure by rules 180 lbs Superheater or Steam chest: how connected to boiler none 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 WALLSEND SLIPWAY & ENGINEERING CO. LIMITED.

The foregoing is a correct description,

Manufacturer.

Dates of Survey { During progress of work in shops - - - } Mar. 18. Apr. 4. 29 May 7. 14. 16. 19. 21. 27. Is the approved plan of boiler forwarded herewith yes
 while building { During erection on board vessel - - - } Jun 7. 18. Total No. of visits 11

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These main boilers have been constructed under special survey & the materials & workmanship are found to be good

Survey Fee Importation of fuel to £4-16-9. When applied for, 191
 Travelling Expenses (if any) Renewals in certificate When received, 21/11/1919

TUE FEB. 3 - 1920

Committee's Minute

Assigned

See Sou 10450

Thomas Field & Co. Ltd.
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Lloyd's Register
 Foundation