Rpt. 5a.

73606

REPORT ON BOILERS.

No. 73322

Received at London Office WED. JUL. 21 1920

Date of writing Report 17. 7. 1920 When handed in at Local Office 20. 7. 1920 Port of

No. in Reg. Book. 79714 Survey held at Hebburn Date, First Survey 24th Jan 1919. Last Survey 9th July 1920 (Number of Visits 14) on the Steel S.S. JOLLY MARIE Tons Gross 366 Net 147

Master Built at Newcastle By whom built J. & D. Morris Ld. When built 1920

Engines made at South Shields By whom made G T Greyrec Ld. Engs. No. 608 When made 1920

Boilers made at Hebburn By whom made Palmers Co Ld - Boiler 955. When made 1920

Registered Horse Power Owners Walford Leslie Ltd Port belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Spencers Steel Ld

(Letter for record S) **Total Heating Surface of Boilers** 1180 sq ft ✓ Is forced draft fitted no **No. and Description of Boilers** one S.E. Cyl multitubular **Working Pressure** 130 ✓ Tested by hydraulic pressure to 260 ✓ Date of test 9. 7. 20

No. of Certificate 9430 Can each boiler be worked separately ✓ **Area of fire grate in each boiler** 36 sq ft ✓ No. and Description of safety valves to each boiler Two - Spring-loaded Area of each valve 5.90 sq in Pressure to which they are adjusted 132 lbs

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 22" Mean dia. of boilers (Inside dia) 11- 10 7/16 Length 10 ft ✓

Material of shell plates Steel ✓ Thickness 25/32 ✓ Range of tensile strength 28/32 tons ✓ Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams 2 R Lap long. seams T R DB. Strap Diameter of rivet holes in long. seams 1" ✓ Pitch of rivets 5¼ ✓

~~Lap of plates or~~ width of butt straps 1- 3½" ✓ Per centages of strength of longitudinal joint rivets 85.42 plate 80.95 Working pressure of shell by rules 131.5 lbs Size of manhole in shell 16 x 12 ✓ Size of compensating ring 7" x 25/32" ✓ **No. and Description of Furnaces in each boiler** two. plain. ✓ Material Steel ✓ Outside diameter 3'-6" ✓ Length of plain part top 6'-0 ✓ bottom 6-8 ✓ Thickness of plates crown 21/32" bottom ✓

Description of longitudinal joint welded No. of strengthening rings ✓ Working pressure of furnace by the rules 139 lbs Combustion chamber plates: Material Steel ✓ Thickness: Sides 5/8 ✓ Back 9/16 ✓ Top 5/8 ✓ Bottom 7/8 ✓ Pitch of stays to ditto: Sides 9½ x 9 ✓ Back 9 x 9 ✓

Top 9 x 8½ ✓ If stays are fitted with nuts or riveted heads nuts ✓ Working pressure by rules 149 lbs Material of stays Steel ✓ Area at smallest part 1.45 sq in ✓ Area supported by each stay 85.8 Working pressure by rules 135 lbs End plates in steam space: Material Steel ✓ Thickness 7/8 ✓

Pitch of stays 16½ x 16½ ✓ How are stays secured & nuts Working pressure by rules 133 lbs Material of stays Steel ✓ Area at smallest part 4.11 6 x 7/16

Area supported by each stay 272.25 sq in Working pressure by rules 156 lbs Material of Front plates at bottom Steel ✓ Thickness 27/32 ✓ Material of lower back plate Steel ✓ Thickness 25/32 ✓ Greatest pitch of stays 13 x 9 ✓ Working pressure of plate by rules 130 lbs Diameter of tubes 3½ ✓

Pitch of tubes 4¾ x 4¾ ✓ Material of tube plates Steel Thickness: Front 27/32 ✓ Back ¾ ✓ Mean pitch of stays 14½ x 9½ ✓ Pitch across wide water spaces 14" ✓ Working pressures by rules 130 lbs Girders to Chamber tops: Material Steel ✓ Depth and thickness of girder at centre 8½ x 1⅜" ✓ Length as per rule 2'-7 5/16" Distance apart 8½ ✓ Number and pitch of Stays in each 2 x 9" pitch ✓

Working pressure by rules 182 lbs Steam dome: description of joint to shell none % of strength of joint

Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

For Palmers Shipbuilding & Iron Co., Ltd.

The foregoing is a correct description,

A Cameron

Manager, Boiler Shop Dept. Manufacturer.

Dates of Survey while building: During progress of work in shops - - 1919. Jan 24.31. Feb. 6.28. Mar 31. Sep 24. Dec 1. 1920 Feb. 11. Mar 2.11. Apl 7. May 10.13. July 9. During erection on board vessel - - -

Is the approved plan of boiler forwarded herewith plan sent with rept of Boiler no 953 yes.

Duplicate Boilers 954. 953. 830.

Total No. of visits 14

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

The Boiler built under Special Survey. The material and workmanship found good and efficient. The boiler was tested at the makers works under hydraulic pressure 260 lbs and found Satisfactory. The boiler is intended for a Classed Vessel.

This Boiler has been efficiently installed on the above named vessel

Fee for Survey of Boiler only

Survey Fee ... ... £ 3 : 19 :

Travelling Expenses (if any) £ : :

When applied for, 20th July 1920.

When received, 27. 8. 1920

R Lee Turner.

Leonard G Shellcross

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. OCT. 12 1920

Signed

Rell 28/7/20

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CERTIFICATE WRITTEN.

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