

# REPORT ON BOILERS.

Received at London Office

Date of writing Report 7<sup>th</sup> October 1920 When handed in at Local Office 11-10-1920 Port of Glasgow

No. in Survey held at Glasgow Date, First Survey 15<sup>th</sup> March Last Survey 7<sup>th</sup> October 1920

Reg. Book. on the Morue Boiler No 3722 S. S. Salcombe Regis (Number of Visits 32)

Master Lowestoff Built at Lowestoff By whom built Jhu Chambers Ltd When built 1920

Engines made at Swadec By whom made Yaman & Paggeseu When made 1920

Boilers made at Glasgow By whom made Jas Heleou & Son Ltd When made 1920

Registered Horse Power \_\_\_\_\_ Owners Harrison Sons Port belonging to London

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Steel Coy of Scotland

(Letter for record S.) Total Heating Surface of Boilers 1666 Sq. ft. Is forced draft fitted No No. and Description of Boilers One Single Ended. Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 7/10/20

No. of Certificate 15524 Can each boiler be worked separately One Area of fire grate in each boiler 50.7 Sq. ft. No. and Description of safety valves to each boiler 2 Spring loaded Area of each valve 4.9 sq. in. Pressure to which they are adjusted 185 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 18" diam. of boilers 13'-6" Length 10'-3"

Material of shell plates Steel Thickness 1 3/32 Range of tensile strength 28/32 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams Lap D.R., long. seams DBS. J.R. Diameter of rivet holes in long. seams 1 3/16 Pitch of rivets 8 5/8

Lap of plates or width of butt straps 17 1/2 Per centages of strength of longitudinal joint rivets 87.5 Working pressure of shell by rules 182 Size of manhole in shell 16" x 12" Size of compensating ring 7" x 1 3/32 No. and Description of Furnaces in each boiler Three plain

Material Steel Outside diameter 3'-5 1/2" Length of plain part 74" Thickness of plates crown 3/4 bottom 3/4

Description of longitudinal joint held No. of strengthening rings None Working pressure of furnace by the rules 180 Combustion chamber plates: Material S Thickness: Sides 19/32 Back 9/8 Top 19/32 Bottom 19/32 Pitch of stays to ditto: Sides 7 3/4 x 8 1/2 Back 8 1/4 x 9

Top 7 3/4 x 8 1/2 If stays are fitted with nuts or riveted heads tub Working pressure by rules 180 Material of stays Steel Area at smallest part 1.79 sq. in. Area supported by each stay 74 sq. in. Working pressure by rules 192 End plates in steam space: Material Steel Thickness 1 1/16

Pitch of stays 17 1/4 x 17 How are stays secured nut fresh Working pressure by rules 180 Material of stays Steel Area at smallest part 5.27 sq. in.

Area supported by each stay 293 sq. in. Working pressure by rules 187 Material of Front plates at bottom Steel Thickness 13/16 Material of Lower back plate Steel Thickness 13/16 Greatest pitch of stays 13 3/8 x 9 Working pressure of plate by rules 180 Diameter of tubes 3"

Pitch of tubes 4 1/4 x 4 1/4 Material of tube plates Steel Thickness: Front 13/16 Back 3/4 Mean pitch of stays 11" Pitch across wide water spaces 14 1/2 Working pressures by rules 197 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8" x 3 1/4 x 2 Length as per rule 27 1/2 Distance apart 7 1/2 Number and pitch of Stays in each 1 in 8 1/2

Working pressure by rules 208 Steam dome: description of joint to shell \_\_\_\_\_ % 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 \_\_\_\_\_

Is the approved plan of boiler forwarded herewith Yes Plan returned \_\_\_\_\_

Total No. of visits 32

Survey request form No. 2404 attached

The foregoing is a correct description, For JAMES NELSON & SON, Ltd. Manufacturer.

Arch Doleck Surveyor

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

The boiler has been built under special survey.  
The workmanship materials are good.  
The boiler is being sent to Lowestoff.

The boiler examined under steam & safety valves adjusted to 185 lb.

Survey Fee ... .. £ 5 : 11 : } When applied for, 12 OCT. 1920

Travelling Expenses (if any) £ : : } When received, 15-10-1920

Committee's Minute GLASGOW 12 OCT 1920 FRI. 12 AUG. 1920

Assigned TRANSMIT TO LONDON TUE. NOV. 29 1921

Paul M. Chigor Engineer Surveyor to Lloyd's Register of Shipping.

A. E. Farmour