

# REPORT ON BOILERS.

No. 17943

Received at London Office

REC'D JAN. 17 1922

Date of writing Report 29/12/21 1921 When handed in at Local Office 5/1/22 1922 Port of Greenock

No. of Survey held at Greenock Date, First Survey 17<sup>th</sup> Dec. 1920. Last Survey 20<sup>th</sup> Dec. 1921

No. of Book. on the H. River Ely (Number of Visits 23) Tons } Gross

Boiler Built at Montrose By whom built James & Montrose S.B. & Co. Ltd When built

Engines made at Coatbridge By whom made W Beardmore & Co. Eng. 581 When made 1921

Boilers made at Greenock By whom made John S Kincaid & Co. Ltd When made 1921

Registered Horse Power Owners Hewitson & Co. & Price Ltd Port belonging to Cardiff

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel John Talbot & Co. Glasgow

Letter for record S Total Heating Surface of Boilers 2102 sq ft Is forced draft fitted no No. and Description of

Boilers One Single Ended Working Pressure 180 lb Tested by hydraulic pressure to 320 lb Date of test 29/12/21

No. of Certificate 1595 Can each boiler be worked separately Area of fire grate in each boiler 59 sq ft No. and Description of

Safety valves to each boiler Two Spring Area of each valve 5.9 sq in Pressure to which they are adjusted 160 lb 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 Mean dia. of boilers 14.9 Length 10.6

Material of shell plates Steel Thickness 1 1/16 Range of tensile strength 28-32 Are the shell plates welded or flanged -

Description of riveting: seams all on top long. seams all on top Diameter of rivet holes in long. seams 1 1/4 Pitch of rivets 8 1/2

Gap of plates or width of butt straps 18 1/8 Percentages of strength of longitudinal joint rivets 87.72 Working pressure of shell by

Rules 181 lb Size of manhole in shell 16" x 12" Size of compensating ring Flanged 1 1/16 No. and Description of Furnaces in each

Boiler Three Furnaces Material Steel Outside diameter 47 1/2 Length of plain part top 11 1/2 bottom 11 1/2 Thickness of plates top 9/16 bottom 9/16

Description of longitudinal joint welded No. of strengthening rings one Working pressure of furnace by the rules 186 lb Combustion chamber

plates: Material Steel Thickness: Sides 1 1/16 Back 2 1/32 Top 1 1/16 Bottom 1 1/16 Pitch of stays to ditto: Sides 9 1/2 Back 9 1/2

Top 9 1/2 If stays are fitted with nuts or riveted heads none Working pressure by rules 180 lb Material of stays Steel Diameter at

smallest part 1.79 Area supported by each stay 82 sq in Working pressure by rules 197 lb End plates in steam space: Material Steel Thickness 1 1/4

Pitch of stays 21.19 1/2 How are stays secured all nut Working pressure by rules 180 lb Material of stays Steel Diameter at smallest part 7.5

Area supported by each stay 410 sq in Working pressure by rules 190 lb Material of Front plates at bottom Steel Thickness 1 1/32 Material of

Lower back plate Steel Thickness 1 1/16 Greatest pitch of stays 13 1/2 Working pressure of plate by rules 180 lb Diameter of tubes 8 1/2

Pitch of tubes 4 1/2 Material of tube plates Steel Thickness: Front 1 1/32 Back 2 1/32 Mean pitch of stays 10 1/8 Pitch across wide

water spaces 14 1/4 Working pressures by rules 187 lb Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 9" x 1 1/2 Length as per rule 30 1/8 Distance apart 9 1/2 Number and pitch of Stays in each two 9 1/2

Working pressure by rules 182 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

The foregoing is a correct description,  
FOR JOHN G. KINCAID & COY., LIMITED.  
Robert Green Manufacturer.

Request. B. 41. attached.

Dates of Survey } During progress of } 1920. Dec. 17. 23. 25. 1921. Jan. 21. 25. 28. Feb. 8-10. Oct. 25. 29. Is the approved plan of boiler forwarded herewith Yes  
while building } During erection on } Mar. 1. 2. 8. 10. 17. 23. 25. 30. Dec. 2. 7. 9. 15. 20. Total No. of visits 23  
board vessel } Returned for 12/1/22

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

This main boiler has been constructed under special survey  
tested by hydraulic pressure and found good.

This boiler has been satisfactorily fitted and its safety valves adjusted under steam  
pressure in accordance with Report 8/367, sent herewith, for particulars. J. Kincaid & Co.

Survey Fee ... £ 14 0 : : When applied for, 6/11/1921  
Travelling Expenses (if any) £ : : When received, 23/1/1922

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

Committee's Minute GLASGOW 10 JAN 1922 FRI. 26 MAY. 1922

Assigned TRANSMIT TO LONDON

