

# REPORT ON BOILERS.

No. 17721  
WED OCT 17 1920

Received at London Office

Date of writing Report 30 Oct 1920 When handed in at Local Office 5 Oct 1920 Port of Greenock

No. in Survey held at Greenock Date, First Survey 11<sup>th</sup> May Last Survey 5 Oct 1920

Reg. Book. 5/5 Porthmeor (Number of Visits 27) Tons } Gross

Master Built at Dumfries By whom built Jaw & Co. Ltd 17 When built 1920

Engines made at Glydebank By whom made Atchison, Blair & Co When made 1920

Boilers made at Greenock By whom made John & Kincaid Ltd When made 1920

NOMINAL Registered Horse Power 73 Owners G.P. Care & Co Ltd Port belonging to Swaff

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel John Tallbot Steel Co

(Letter for record S) Total Heating Surface of Boilers 1572 sq ft Is forced draft fitted No No. and Description of Boilers One single ended Working Pressure 150 lb Tested by hydraulic pressure to 360 lb Date of test 1/10/20

No. of Certificate 1498 Can each boiler be worked separately Yes Area of fire grate in each boiler 46.58 sq ft No. and Description of safety valves to each boiler Two Spring 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 13'0" Length 10'0"

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

Descrip. of riveting: all on lap long. seams all on lap Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 8"

Lap of plates or width of butt straps 16 7/8" Per centages of strength of longitudinal joint rivets 86.98 Working pressure of shell by plate 85.93

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 3 Dignwin Material Steel Outside diameter 4 1/4" Length of plain part top Thickness of plates crown 1/2" bottom

Description of longitudinal joint welded No. of strengthening rings strong Working pressure of furnace by the rules 183 lb Combustion chamber plates: Material Steel Thickness: Sides 10/16" Back 10/16" Top 10/16" Bottom 10/16" Pitch of stays to ditto: Sides 8 3/4" x 8 1/2" Back 8 7/8" x 8 1/2"

Top 8 3/4" x 8 1/2" If stays are fitted with nuts or riveted heads Yes Working pressure by rules 181 lb Material of stays Steel Area at smallest part 1.79 sq in Area supported by each stay 74 sq in Working pressure by rules 216 lb End plates in steam space: Material Steel Thickness 1 1/4"

Pitch of stays 22 1/2" x 17 1/2" How are stays secured all nut Working pressure by rules 183 lb Material of stays Steel Area at smallest part 6.9 sq in

Area supported by each stay 396 sq in Working pressure by rules 181 lb Material of Front plates at bottom Steel Thickness 1" Material of Lower back plate Steel Thickness 1 1/16" Greatest pitch of stays 13" Working pressure of plate by rules 184 lb Diameter of tubes 3 1/4"

Pitch of tubes 4 1/2" x 4 7/16" Material of tube plates Steel Thickness: Front 1" Back 1 1/16" Mean pitch of stays 13.3 x 9" Pitch across wide water spaces 14" Working pressures by rules 182 lb Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8 3/4" x 1 1/2" Length as per rule 29 7/8" Distance apart 8 3/4" Number and pitch of Stays in each 4 in 8 1/2"

Working pressure by rules 187 lb 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

UPERHEATER. 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

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

Dates of Survey } During progress of } 1920 May 11, June 21-27, July 19-27-30, Aug. 5-9-16-18-20-23-26-27-30 Is the approved plan of boiler forwarded herewith Yes

while building } During erection on } Sept 2-7-9-10-13-15-17-22-23-27 Oct 1-5. Total No. of visits 27 + 8 Plan returned to G.P.C. for duplicate

board vessel } 1920 Sept 27, Nov 23, Dec 21, 1921 Jan 11, July 14, 1922 Jan 19, Feb 2-6.

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

This main boiler has been constructed under special survey in accordance with the approved plans. Tested by hydraulic pressure and found good. Will be forwarded to Dumfries. It has now been fitted & secured on board, safety valves adjusted.

Survey Fee ... £ 4 : 12 : } When applied for, 6/10/1920  
Travelling Expenses (if any) £ : : } When received, 8/10/1920

Committee's Minute GLASGOW. 12 OCT 1920

Assigned TRANSMIT TO LONDON

James James & John L. Payne  
Engineer Surveyor to Lloyd's Register of Shipping  
FRI. 9 FEB. 1923  
Lloyd's Register Foundation

Kincaid & Co

Retk  
15/10/20

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