

REPORT ON BOILERS.

No. 17647

Received at London Office

WED. MAY. 19 1920

Date of writing Report 8 May 1920 When handed in at Local Office 14/5/1920 Port of Greenock

No. in Survey held at Greenock Date, First Survey 4th March 1920 Last Survey 13 May 1920

Reg. Book. on the Steel Steamer "Evelyn" (Number of Visits 16) Gross Tons 50 2 15 Net Tons 37 1 15

Master Built at Anderson By whom built Anderson & Co Ltd (3/5) When built 1920

Engines made at Blydebank By whom made Aitchison Blair Ltd (127) No 79. When made 1920

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

Registered Horse Power Owners Port belonging to

Kincaid 179

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel John S Kincaid & Co Ltd

Letter for record S Total Heating Surface of Boilers 1610 sq ft Is forced draft fitted No. and Description of Boilers One single ended Working Pressure 180 lb Tested by hydraulic pressure to 360 lb Date of test 7/5/20

No. of Certificate 1453 Can each boiler be worked separately Area of fire grate in each boiler 51.18 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 13.9 Length 10.6

Material of shell plates Steel Thickness 1 1/8 Range of tensile strength 28/32 Are the shell plates welded or flanged -

Descrip. of riveting: str. seams all in lap long. seams all lap Diameter of rivet holes in long. seams 1 1/16 Pitch of rivets 8 1/2

Lap of plates or width of butt straps 17 9/8 Per centages of strength of longitudinal joint rivets 87.38 Working pressure of shell by plate 85.82

Rules 183 lb Size of manhole in shell 16" x 12" Size of compensating ring flanged 1 1/8 No. and Description of Furnaces in each boiler 3 Brighton Material Steel Outside diameter 43 7/16 Length of plain part top 17 1/2 Thickness of plates bottom 17 1/2

Description of longitudinal joint butted No. of strengthening rings none Working pressure of furnace by the rules 185 lb Combustion chamber plates: Material Steel Thickness: Sides 2 1/32 Back 10/16 Top 2 1/32 Bottom 2 1/32 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 855" Working pressure by rules 186 lb End plates in steam space: Material Steel Thickness 1 1/8

Pitch of stays 18" How are stays secured all nuts Working pressure by rules 185 lb Material of stays Steel Diameter at smallest part 5.79"

Area supported by each stay 324" Working pressure by rules 186 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 192 lb Diameter of tubes 3 1/4"

Pitch of tubes 4 1/2 Material of tube plates Steel Thickness: Front 1" Back 12/16 Mean pitch of stays 9 1/4" 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 1/2" x 1 1/4" Length as per rule 31.65 Distance apart 8 1/4" Number and pitch of Stays in each 4 x 9 1/4"

Working pressure by rules 185 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

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,

John S Kincaid & Co Ltd Manufacturer.

Dates of Survey: During progress of work in shops - - 1920. Mar. 4-8-10-17-22-26-30. Apr. 2-7-13-19. Is the approved plan of boiler forwarded herewith Yes

while building: During erection on board vessel - - - 28. May 4-5-7-13. Total No. of visits 16.

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 Rules & Plans.

Survey Fee ... £ 5 : 7 : When applied for, 15/5/1920

Travelling Expenses (if any) £ : : When received, 9.7.1920.

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

Committee's Minute GLASGOW 18 MAY 1920

Assigned TRANSMIT TO LONDON See Glasgow Report No. 40301

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