

## REPORT ON BOILERS.

No. 18795.

-9 NOV 1927

Received at London Office

Date of writing Report 6/10/24 When handed in at Local Office 14th November 1924 Port of Greenock

No. in Survey held at Greenock Date, First Survey 15th February 1924 Last Survey 2nd November 1924  
 Reg. Book No. 39794 Sub. on the SM/V "Athelqueen" (Number of Visits 40) Tons { Gross 8790 Net 5150  
 Master Built at Middlesbrough By whom built Furness & Co. Ltd (117) When built 1927  
 Engines made at Greenock By whom made John Kincaid & Co. Ltd (121) When made 1927  
 Boilers made at ditto By whom made ditto (121) When made 1927  
 Registered Horse Power Owners British Melane. Co. Ltd Port belonging to Liverpool

MULTITUBULAR BOILERS ~~MANUFACTURED~~, AUXILIARY ~~MANUFACTURED~~.—Manufacturers of Steel Leith & Co. Ltd, Glasgow  
W. & A. Mitchell, Glasgow(Letter for record S) Total Heating Surface of Boilers 1220.95 Is forced draft fitted Amsted No. and Description ofBoilers one Single Ended Working Pressure 180 Tested by hydraulic pressure to 320 Date of test 5-10-27No. of Certificate 1484 Can each boiler be worked separately yes Area of fire grate in each boiler oil fuel No. and Description ofsafety valves to each boiler Doyle Spring Area of each valve 4.98 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 YesSmallest distance between boilers or uptakes and bunkers or woodwork Yes Mean dia. of boilers 11-3" Length 10-6"Material of shell plates S Thickness 15/16" Range of tensile strength 28/32 Are the shell plates welded or flanged YesDescrip. of riveting: cir. seams DR long. seams TR & DBS Diameter of rivet holes in long. seams 1" Pitch of rivets 4"width of butt straps 14 7/8" Per centages of strength of longitudinal joint 92.4 Working pressure of shell byrules 182 Size of manhole in shell 16 1/2" Size of compensating ring 32 3/4 x 28 3/4 x 1 1/2" No. and Description of Furnaces in eachboiler 2 Brighton Material S Outside diameter 3-4 1/4" Length of plain part top Thickness of plates crown 15/32"Description of longitudinal joint weld No. of strengthening rings Yes Working pressure of furnace by the rules 182 Combustion chamberplates: Material S Thickness: Sides 2 1/32" Back 2 1/32" Top 2 1/32" Bottom 2 1/32" Pitch of stays to ditto: Sides 10-8" Back 9-9 1/4"Top 8-10" If stays are fitted with nuts or riveted heads Yes Working pressure by rules 180 Material of stays S Area atsmallest part 13.203 Area supported by each stay 83.25 Working pressure by rules 181 End plates in steam space: Material S Thickness 1 1/32"Pitch of stays 16 5/16" How are stays secured Yes Working pressure by rules 181 Material of stays S Area at smallest part 4.57Area supported by each stay 242.2 Working pressure by rules 182 Material of Front plates at bottom S Thickness 1" Material ofLower back plate S Thickness 25/32" Greatest pitch of stays 13 3/4" Working pressure of plate by rules 181 Diameter of tubes 3"Pitch of tubes 4 1/4" x 4 3/16" Material of tube plates S Thickness: Front 1" Back 20/32" Mean pitch of stays 9.48 Pitch across widewater spaces 14" Working pressures by rules 181 Girders to Chamber tops: Material S Depth and thickness ofgirder at centre 8 1/4" x 3 1/4" (2) Length as per rule 2.462 Distance apart 8" Number and pitch of Stays in each 2 at 10"Working pressure by rules 183 Steam dome: description of joint to shell Yes % 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 JOHN G. KINCAID &amp; COY. LIMITED

The foregoing is a correct description,

W. G. Cairns

DIRECTOR

Manufacturer.

Is the approved plan of boiler forwarded herewith Yes

Total No. of visits 40.

Dates of Survey { During progress of work in shops - - -  
 while building { During erection on board vessel - - -

See Machinery Report

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

This Boiler has been built under Special Survey in accordance with the approved plans. The workmanship & material are of good quality. Boiler now shipped to Middlesbrough at which work it will be fitted on board. This Rept. accompanies that of the Machinery. This Boiler is a dupl. of No. 9, Enk. Rept. No. 18509. This Boiler has been securely fitted aboard & its safety valve have been adjusted under

Survey Fee ...

When applied for, 14th November 1924

Travelling Expenses ...

When received, 19

charged on Machinery Rept.

W. G. Cairns  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 8- NOV 1927

Assigned

Deferred

TUES. 21 FEB 1928

See Machinery Report No. 18795  
 Lloyd's Register Foundation