

## REPORT ON BOILERS.

No. 18796.

Received at London Office

Date of writing Report

14/10/27

When handed in at Local Office

14 November 1927

Port of Greenock

No. in Survey held at  
Reg. Book.

Greenock

Date, First Survey 9th March 1926. Last Survey 14th November 1927.

(Number of Visits 80.) Gross

on the

S/S "Quercus"

Tons

Net

Master

Built at

P. Glasgow

By whom built

L. Glasgow C. &amp; A. (493)

When built

1927

Engines made at

Greenock

By whom made

Rankie Blackmore &amp; Co. (419)

When made

1927

Boilers made at

ditto

By whom made

ditto

When made

1927

Registered Horse Power

Owners

Arbor Shipping Co. &amp; A.

Port belonging to

London

MULTITUBULAR BOILERS—MAIN, ~~MAIN, MAIN, OR DONKEY.~~

Manufacturers of Steel

Gutehoffnungslinthe

(Letter for record S) Total Heating Surface of Boilers 6789 sq. ft. Is forced draft fitted yes No. and Description of

Boilers 3 Single Ended Working Pressure 200. Tested by hydraulic pressure to 350 Date of test 30.3.27

No. of Certificate 1748. Can each boiler be worked separately yes Area of fire grate in each boiler 58 sq. ft. No. and Description of

safety valves to each boiler 2 Direct Spring Area of each valve 9.62 sq. in. Pressure to which they are adjusted 205

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 1'-4" Mean dia. of boilers 14'-6" Length 11'-6"

Material of shell plates S Thickness 1 5/16" Range of tensile strength 28-32 Are the shell plates welded or flanged

Descrip. of riveting: cir. seams DR. long. seams TR. D B S Diameter of rivet holes in long. seams 1 3/8" Pitch of rivets 9 1/2"

Length of butt straps 1'-8 1/4" Per centages of strength of longitudinal joint rivets 91.4 plate 85.5 Working pressure of shell by

rules 202 Size of manhole in shell 16 x 12 Size of compensating ring 34 1/2 x 20 3/4 x 15 1/16 No. and Description of Furnaces in each

boiler 3 Bored and Material S Outside diameter 3'-9 1/4" Length of plain part top 19' 3/4" bottom 19' 3/4" Thickness of plates crown 1 5/16" bottom 1 5/16"

Description of longitudinal joint welded No. of strengthening rings Working pressure of furnace by the rules 205 Combustion chamber

plates: Material S Thickness: Sides 23/32 Back 23/32 Top 23/32 Bottom 25/32 Pitch of stays to ditto: Sides 8 5/8 x 10 1/4 Back 9 1/4 x 9 1/2"

Top 10 9/16 x 8 3/4 If stays are fitted with nuts or riveted heads Yes Working pressure by rules 201. Material of stays S Area at

smallest part 203.27 Area supported by each stay 87.87 Working pressure by rules 209 End plates in steam space: Material S Thickness 1 5/16"

Pitch of stays 19 1/2 x 18 1/2 How are stays secured DN Working pressure by rules 201. Material of stays S Area at smallest part 72.4

Area supported by each stay 260.7 Working pressure by rules 202 Material of Front plates at bottom S Thickness 1" Material of

Lower back plate S Thickness 7/8" Greatest pitch of stays 13 1/4" Working pressure of plate by rules 206 Diameter of tubes 2 3/4"

Pitch of tubes 3 5/8 x 3 7/8 Material of tube plates S Thickness: Front 1" Back 3/4" Mean pitch of stays 9.4 Pitch across wide

water spaces 13 1/2 Working pressures by rules 204 Girders to Chamber tops: Material S Depth and thickness of

girder at centre 10 3/4 x 13 1/6 (2) Length as per rule 34.62 Distance apart 103/16 Number and pitch of Stays in each 3 at 8 3/4"

Working pressure by rules 203 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

## 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

The foregoing is a correct description,  
RANKIN & BLACKMORE LTD.,

Director.

Manufacturer.

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

See Machinery Report

Is the approved plan of boiler forwarded herewith

yes

Total No. of visits

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

These Boilers have been built under special survey in accordance with the approved plan. The workmanship & material are of good quality, they are now securely fitted on board.

This Report accompanies that of the Machinery

Survey Fee ... £

When applied for, 7th NOVEMBER 1927

Travelling Expenses (if any) £

When received, 8th NOVEMBER 1927

charged on Machinery Report

W. J. Lordon-Mitchell

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 15 NOV 1927

Assigned

See accompanying Machy. Report

Lloyd's Register  
Foundation

W1359-0047