

REPORT ON BOILERS.

No. 18702.

Received at London Office

18 MAY 1927

Date of writing Report 20/5/27 When handed in at Local Office 9th May 1927 Port of Greenock
No. in Survey held at Greenock Date, First Survey 3rd June 1924 Last Survey 9th May 1927
Reg. Book. S/S "Alexander I" (Number of Visits 104) Gross Tons 104 Net Tons 104
Master John Kincaid, Esq. Built at Lithgow, Co. (769) By whom built Lithgow, Co. (769) When built 1927
Engines made at Greenock By whom made John Kincaid, Esq. (619) When made 1927
Boilers made at Greenock By whom made John Kincaid, Esq. (619) When made 1927
Registered Horse Power 104 Owners Jugoslav American Nav Co. Port belonging to Greenock

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~ Manufacturers of Steel Greenock

(Letter for record S) Total Heating Surface of Boilers 8489 Is forced draft fitted Yes No. and Description of Boilers 3 Single ended Working Pressure 180 Tested by hydraulic pressure to 320 Date of test 21-8-25

No. of Certificate 1699 Can each boiler be worked separately Yes Area of fire grate in each boiler 63.25 No. and Description of safety valves to each boiler Double spring Area of each valve 9.62 Pressure to which they are adjusted 185

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 6" 0" Mean dia. of boilers 15.9 Length 12.0

Material of shell plates S Thickness 19/32 Range of tensile strength 28/32 Are the shell plates welded or flanged —

Descrip. of riveting: cir. seams DR long. seams TR & DBS Diameter of rivet holes in long. seams 15/16 Pitch of rivets 9 1/4

Length of plates or width of butt straps 1.45/8 Per centages of strength of longitudinal joint 88 Working pressure of shell by rules 181 Size of manhole in shell 16 1/2 Outside diameter 4.2 1/4 Length of plain part 20 1/2 Thickness of plates 19/32

boiler 3 corrugated Material S No. of strengthening rings 183 Working pressure of furnace by the rules 183 Combustion chamber

Description of longitudinal joint weld No. of strengthening rings 183 Working pressure of furnace by the rules 183 Combustion chamber

plates: Material S Thickness: Sides 21/32 Back 21/32 Top 21/32 Bottom 21/32 Pitch of stays to ditto: Sides 9" 9" Back 9" 9"

Top 9" 9" If stays are fitted with nuts or riveted heads Yes Working pressure by rules 182 Material of stays S Area at smallest part 6.56

Pitch of stays 16 1/2 How are stays secured DN Working pressure by rules 185 Material of stays S Area at smallest part 6.56

Area supported by each stay 312 Working pressure by rules 200 Material of Front plates at bottom S Thickness 31/32 Material of

Lower back plate S Thickness 26/32 Greatest pitch of stays 13 3/4 Working pressure of plate by rules 185 Diameter of tubes 2 1/2

Pitch of tubes 33/4 Material of tube plates S Thickness: Front 31/32 Back 3/4 Mean pitch of stays 9.37 Pitch across wide

water spaces 13 1/2 Working pressures by rules 183 Girders to Chamber tops: Material S Depth and thickness of

girder at centre 10 3/4 (2) Length as per rule 37.59 Distance apart 9 1/8 Number and pitch of Stays in each 3 at 9

Working pressure by rules 182 Steam dome: description of joint to shell — Diam. of rivet holes —

Diameter — Thickness of shell plates — Material — Description of longitudinal joint — How stayed —

Pitch of rivets — Working pressure of shell by rules — Crown plates — Thickness — Tested by Hydraulic Pressure to —

SUPERHEATER. Type —

Date of Test — Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler — Is Easing Gear fitted —

Diameter of Safety Valve — Pressure to which each is adjusted — For JOHN G. KINCAID & COY. LIMITED

The foregoing is a correct description,

Is the approved plan of boiler forwarded herewith Yes Director

Dates of Survey: During progress of work in shops — while building — During erection on board vessel —

See Machinery Report

Total No. of visits 104

GENERAL REMARKS

(State quality of workmanship, opinions as to class, &c.) These Boilers have been built under Special Survey in accordance with the approved plans & the workmanship, material are of good quality. They are now securely fitted on board. This Report accords with that of the Machinery.

Survey Fee —

Travelling Expenses —

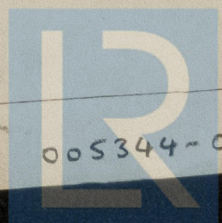
Charged on Machinery

Committee's Minute GLASGOW 17 MAY 1927

Assigned See Machinery Report.

W. Gordon-Mitchell

Engineer Surveyor to Lloyd's Register of Shipping.



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