

REPORT ON BOILERS.

No. 18413.

Received at London Office 17 JUN 1925

Date of writing Report 30/6/25 When handed in at Local Office 9/6/25 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 11th September, 1924 Last Survey 10th June, 1925
 Reg. Book on the TS MV "Athelchief" (Number of Visits 69) Gross Tons }
 Net Tons }
 Built at Dunfermline By whom built Baldou & Co. Ltd. 294 When built 1925
 Engines made at Glasgow By whom made John Kincaid & Co. Ltd. (16) When made 1925
 Boilers made at ditto By whom made " When made 1925
 Registered Horse Power _____ Owners _____ Port belonging to _____

MULTITUBULAR BOILERS Donkey ~~auxiliary~~ — Manufacturers of Steel Lauentz & Co. Guteshoffnungshalle

Letter for record S Total Heating Surface of Boilers 2441 sq ft Is forced draft fitted no No. and Description of Boilers 2 Single ended Working Pressure 180 Tested by hydraulic pressure to 320 Date of test 8.4.25
 No. of Certificate 1689 Can each boiler be worked separately _____ Area of fire grate in each boiler Oil Fuel No. and Description of Safety valves to each boiler Double Spring Area of each valve 4.98 sq in 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 11.3 in Length 10.6 in
 Material of shell plates S Thickness 15/16 in Range of tensile strength 28/32 Are the shell plates welded or flanged _____
 Description of riveting: cir. seams DR long. seams TR.DBS Diameter of rivet holes in long. seams 1 in Pitch of rivets 7 in

Gap of plates or width of butt straps 14 7/8 in Per centages of strength of longitudinal joint rivets 92.4% Working pressure of shell by rules 182 Size of manhole in shell 16 x 20 in Size of compensating ring 22 3/4 x 28 3/4 x 1 1/2 in No. and Description of Furnaces in each boiler 2 Dighton Material S Outside diameter 3.4 1/4 in Length of plain part top 15 1/2 in Thickness of plates bottom 15/32 in
 Description of longitudinal joint weld No. of strengthening rings _____ Working pressure of furnace by the rules 182 Combustion chamber plates: Material S Thickness: Sides 2 1/32 in Back 2 1/32 in Top 2 1/32 in Bottom 2 1/32 in Pitch of stays to ditto: Sides 10.8 in Back 9.9 1/4 in

Top 8 x 10 in If stays are fitted with nuts or riveted heads nuts Working pressure by rules 180 Material of stays S Area at smallest part 1.73 sq ft Area supported by each stay 83.25 sq in Working pressure by rules 181 End plates in steam space: Material S Thickness 1 1/32 in
 Pitch of stays 16 1/2 x 16 1/2 in How are stays secured nuts Working pressure by rules 181 Material of stays S Area at smallest part 4.57 sq ft
 Area supported by each stay 242.2 sq in Working pressure by rules 182 Material of Front plates at bottom S Thickness 1 in Material of lower back plate S Thickness 25/32 in Greatest pitch of stays 13 3/4 in Working pressure of plate by rules 181 Diameter of tubes 3 in

Pitch of tubes 4 1/4 x 4 3/16 in Material of tube plates S Thickness: Front 1 in Back 23/32 in Mean pitch of stays 9.78 in Pitch across wide water spaces 14 in Working pressures by rules 181 Girders to Chamber tops: Material S Depth and thickness of girder at centre 8 1/4 x 3/4 (2) in Length as per rule 2.762 in Distance apart 8 in Number and pitch of Stays in each 2 at 10 in

Working pressure by rules 183 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,
 For and on behalf of **JOHN G. KINCAID & COY., LIMITED.** Manufacturer.
Robert Green Director

Dates of Survey: During progress of work in shops - - -
 while building: During erection on board vessel - - -
 See Machinery 1st Entry. Total No. of visits 69.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These Boilers have been built under Special Survey in accordance with the approved plan & the workmanship & material are of good quality & they have now been shipped to Dundee, at which port they will be fitted on board. This Rept. accompanies that of the Donkey.

Survey Fee £ 2 Charged on machinery report. When applied for, 15.6.1925
 Travelling Expenses (if any) £ When received, 6.8.1925 PER SECRETARY'S LIA.

Committee's Minute GLASGOW 16 JUN 1925
 Assigned See accompanying machinery report
W. Gordon Macleod 2020
 Engineer Surveyor to Lloyd's Register of Shipping.
 FRI 11 SEP 1925
 See Dunfermline