

REPORT ON BOILERS.

No. 8538.

27 AUG 1925

Date of writing Report 24 Aug 1925 When handed in at Local Office 26 Aug 1925 Port of Dundee
No. in Survey held at Dundee Date, First Survey 23rd March Last Survey 21st Aug 1925
Reg. Book. 1908 on the T.S.M.V. "Athelchief" (Number of Visits 41) Gross 7707.43 Tons Net 4543.6
Master Built at Dundee By whom built Caledon Shipbuilding & Eng Co. Ltd When built 1925
Engines made at Greenock By whom made J. G. Kincaid & Co. Ltd (K.B.) when made 1925
Boilers made at Greenock By whom made J. G. Kincaid & Co. Ltd (K.B.) when made 1925
Registered Horse Power Owners British Indussa Co. Ltd (Ings) Port belonging to Liverpool

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel
Letter for record S Total Heating Surface of Boilers 24441 sq ft Is forced draft fitted No. and Description of
Boilers 2 Multitubular Single-ended Working Pressure 180 lbs Tested by hydraulic pressure to Date of test
No. of Certificate Can each boiler be worked separately Area of fire grate in each boiler No. and Description of
Safety valves to each boiler Two spring loaded Area of each valve 4.98 sq ft Pressure to which they are adjusted 185 lbs
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 2'-6" Mean dia. of boilers Length
Material of shell plates Thickness Range of tensile strength Are the shell plates welded or flanged
Descrip. of riveting: cir. seams long. seams Diameter of rivet holes in long. seams Pitch of rivets
Gap of plates or width of butt straps Per centages of strength of longitudinal joint rivets Working pressure of shell by
Rules Size of manhole in shell Size of compensating ring 18 1/4" No. and Description of Furnaces in each
Boiler Material Outside diameter Length of plain part top Thickness of plates crown bottom
Description of longitudinal joint No. of strengthening rings Working pressure of furnace by the rules Combustion chamber
Plates: Material Thickness: Sides Back Top Bottom Pitch of stays to ditto: Sides Back
Top If stays are fitted with nuts or riveted heads Working pressure by rules Material of stays Diameter at
Smallest part Area supported by each stay Working pressure by rules End plates in steam space: Material Thickness
Pitch of stays How are stays secured Working pressure by rules Material of stays Diameter at smallest part
Area supported by each stay Working pressure by rules Material of Front plates at bottom Thickness Material of
Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules Diameter of tubes
Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays Pitch across wide
Water spaces Working pressures by rules Girders to Chamber tops: Material Depth and thickness of
Rivets at centre Length as per rule Distance apart Number and pitch of Stays in each
Working pressure by rules 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
Boles 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, Manufacturer.

Dates During progress of work in shops - - 1925 Mar. 23. Apr. 1. 2. 6. 7. 22. 30. Is the approved plan of boiler forwarded herewith
Survey while building During erection on board vessel - - 1925 May 6. 22. 24. Jun. 2. 4. 12. 15. 18. 19. 22. 24. July 1. 2. 4. 10. Total No. of visits 41
14. 17. 20. 21. 23. Aug. 5. 6. 7. 8. 10. 12. 13. 14. 15. 17. 18. 19. 20. 21.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
These boilers have been fitted on board in an efficient manner, tried under working conditions and found satisfactory.
They have been fitted to burn oil fuel in accordance with Section 49 of Rules (1921-22) approved Plan, for a flash point of above 150° F.

Survey Fee ... £ Paid: in Greenock When applied for, 19
Travelling Expenses (if any) £ When received, 19

Committee's Minute Assigned See Dunn J.E. 8538
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.