

REPORT ON BOILERS.

No. 16927.
THU. 21. OCT. 1915

Received at London Office

Date of writing Report 9/10/1915 When handed in at Local Office 9/10/1915 Port of Greenock
 No. in Survey held at Greenock Date, First Survey 24th Jan'y. 1915 Last Survey 4th October 1915
 Reg. Book. on the Steel Steamer (Histon) (Number of Visits 40) Tons { Gross 2426
 Net 1474
 Master James A. S. Adams Built at St Glasgow By whom built Dunlop Brunner & Co When built 1915
 Engines made at St Glasgow By whom made Dunlop Brunner & Co when made 1915
 Boilers made at Greenock By whom made John S Kincaid & Co when made 1915
 Registered Horse Power Owners Swansea Steamers Ltd. Port belonging to Swansea.

Kincaid & Co

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Stewart & Lloyd
 (Letter for record S) Total Heating Surface of Boilers 410432 Is forced draft fitted No. and Description of Boilers Two single ended Working Pressure 180 lb Tested by hydraulic pressure to 360 lb Date of test 23/6/15
 No. of Certificate 1229 Can each boiler be worked separately Area of fire grate in each boiler 5592 No. and Description of safety valves to each boiler Two Spring Area of each valve 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 15.0 Length 10.6
 Material of shell plates Steel Thickness 1 7/32 Range of tensile strength 28/32 Are the shell plates welded or flanged —
 Descrip. of riveting: cir. seams — long. seams all chain Diameter of rivet holes in long. seams 1 1/4 Pitch of rivets 8 1/16
 Lap of plates or width of butt straps 18 1/2 Per centages of strength of longitudinal joint rivets 86.2 Working pressure of shell by rules 183 lb Size of manhole in shell 16 x 12 Size of compensating ring 32 1/2 x 28 1/2 x 17 1/2 No. and Description of Furnaces in each boiler Three furnaces Material Steel Outside diameter 48 1/2 Length of plain part top 9/16 Thickness of plates bottom 9/16
 Description of longitudinal joint welded No. of strengthening rings Working pressure of furnace by the rules 183 lb Combustion chamber plates: Material Steel Thickness: Sides 10/16 Back 2 1/32 Top 10/16 Bottom 12/16 Pitch of stays to ditto: Sides 8 1/4 x 8 1/2 Back 9 1/4 x 8 7/8 Top 8 1/4 x 8 1/2 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 181 lb Material of stays Steel Diameter at smallest part 1.79 Area supported by each stay 82 Working pressure by rules 197 lb End plates in steam space: Material Steel Thickness 17/32 Pitch of stays 19 1/4 How are stays secured all nuts Working pressure by rules 180 lb Material of stays Steel Diameter at smallest part 6.9 Area supported by each stay 392 Working pressure by rules 183 lb Material of Front plates at bottom Steel Thickness 1 Material of Lower back plate Steel Thickness 13/16 Greatest pitch of stays 13 Working pressure of plate by rules 184 lb Diameter of tubes 3 1/2 Pitch of tubes 4 7/16 x 4 1/2 Material of tube plates Steel Thickness: Front 1 Back 12/16 Mean pitch of stays 10.1 Pitch across wide water spaces 14 Working pressures by rules 183 lb Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8 1/2 x 1 1/2 Length as per rule 3.6 Distance apart 8 1/2 Number and pitch of Stays in each Two 8 1/4 Working pressure by rules 184 lb 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 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,
John S. Kincaid & Co Ltd Manufacturer.

Dates of Survey { During progress of work in shops - - } See machinery Report. Is the approved plan of boiler forwarded herewith —
 while building { During erection on board vessel - - - } Total No. of visits 40

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) Workmanship good.
These main Boilers have been constructed under special survey in accordance with the approved tests & sent tested by hydraulic pressure and found tight and sound.

Survey Fee ... £ : : } When applied for, 19.....
 Travelling Expenses (if any) £ : : } When received, 19.....
James Jones,
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW 19 OCT. 1915
 assigned See accompanying machinery report.
 Lloyd's Register Foundation