

Men R^t Stephenson & Co L^d No 623 Boiler.

Rpt. 5a.

REPORT ON BOILERS.

No. 55595
1908 OCT 22

Received at London Office

Date of writing Report August 1908 When handed in at Local Office 15-10-1908 Port of Newcastle on Tyne

No. in Survey held at Newcastle Date, First Survey May 28 Last Survey 14 1908
Reg. Book. Sup. 31 on the Steer S. S. Lunedale (Number of Visits) Tons } Gross Net

Master Built at Hessele Hull By whom built J Dobson & Co When built 1908
Engines made at North Shields By whom made Shields Engineering & Dry Dock Coy Ltd when made 1908
Boiler made at Newcastle By whom made R^t Stephenson & Co L^d when made 1908
Registered Horse Power 61 Owners Lancaster & Liverpool Shipping Co Port belonging to Liverpool

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel J Spencer & Son

(Letter for record S) Total Heating Surface of Boilers 1095 sq ft Is forced draft fitted No No. and Description of Boilers One Cyl. Invert. Stud Working Pressure 135 Tested by hydraulic pressure to 270 Date of test 13-7-08

No. of Certificate 7734 Can each boiler be worked separately Yes Area of fire grate in each boiler 34-5 sq ft No. and Description of safety valves to each boiler two direct spring Area of each valve 4-9 sq in Pressure to which they are adjusted 140 lbs

Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler Yes
Smallest distance between boilers or uptakes and bunkers or woodwork 11 in Mean dia. of boilers 11-6 Length 10-0

Material of shell plates S Thickness 25/32 Range of tensile strength 28-32 Are the shell plates welded or flanged No
Descrip. of riveting: cir. seams d l long. seams d shap Diameter of rivet holes in long. seams 1 Pitch of rivets 5 7/16

Gap of plates or width of butt straps 15 1/2 Per centages of strength of longitudinal joint rivets 82 plate 81-6 Working pressure of shell by rules 138 Size of manhole in shell 16 x 12 Size of compensating ring 7 x 25/32 No. and Description of Furnaces in each boiler Two plain Material S Outside diameter 42 1/2 Length of plain part top 72 1/2 bottom 79 1/2 Thickness of plates crown 2 1/32 bottom

Description of longitudinal joint d shap. No. of strengthening rings Working pressure of furnace by the rules 137 Combustion chamber plates: Material S Thickness: Sides 9/16 Back 19/32 Top 9/16 Bottom 31/32 Pitch of stays to ditto: Sides 8 3/4 x 8 3/4 Back 9 1/8 x 9 1/8

Top 8 3/4 x 8 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 143 Material of stays S Diameter at smallest part 1-45 Area supported by each stay 83-2 Working pressure by rules 138 End plates in steam space: Material S Thickness 7/8

Pitch of stays 16 x 15 1/2 How are stays secured d n x w Working pressure by rules 146 Material of stays S Diameter at smallest part 3-67 Area supported by each stay 248 Working pressure by rules 147 Material of Front plates at bottom S Thickness 7/8 Material of Lower back plate S Thickness 7/8 Greatest pitch of stays as per plan Working pressure of plate by rules 135 Diameter of tubes 3 1/2

Pitch of tubes 4 3/4 x 4 3/4 Material of tube plates S Thickness: Front 7/8 Back 3/4 Mean pitch of stays 11 1/2 Pitch across wide water spaces 14 Working pressures by rules 140 Girders to Chamber tops: Material S Depth and thickness of girder at centre 8 x 13/8 Length as per rule 30 Distance apart 8 Number and pitch of Stays in each 2- 8 3/4

Working pressure by rules 170 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 holes 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 2 1/2

FOR ROBERT STEPHENSON & CO. LD.
The foregoing is a correct description,
J. Cameron
SECRETARY, Manufacturer.

Dates of Survey During progress of work in shops - - - 1908. May 28. June 4. 10. July 9. 13. 23. Is the approved plan of boiler forwarded herewith Yes
while building During erection on board vessel - - - Please see report on machinery. Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
The material & workmanship is good.
The boiler has been built under special survey.
The boiler fitted up on board tested under steam & found satisfactory.

Survey Fee ... £ ... : } When applied for, 19
Travelling Expenses (if any) £ ... : } When received, 19
Leonard G. Halleross
John H. Heck
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute FRI. 23 OCT 1908
Assigned

