

REPORT ON BOILERS.

No. 32462

WED. MAR. 19. 1913

Received at London Office

Date of writing Report 13. 3. 1913 When handed in at Local Office 13. 3. 1913 Port of Glasgow

No. in Survey held at Glasgow Date, First Survey 1-8-12 Last Survey 12. 3. 1913

Reg. Book. 2 Sup. on the S.S. "LINMERE" (Number of Visits 47) Gross Tons 1578 Net Tons 853

Master A. Cameron Built at Port Glasgow By whom built Munro & Murray (N° 253) When built 1913

Engines made at Glasgow By whom made Munro & Murray (N° 650) When made 1913

Boilers made at do By whom made do When made 1913

Registered Horse Power Owners Waters S.S. Co. (Herbert Waters & Co. agents) belonging to Manchester

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel W. Beardmore

Letter for record S Total Heating Surface of Boilers 446 Is forced draft fitted no No. and Description of Boilers One S.E. marine Working Pressure 100lbs Tested by hydraulic pressure to 200lbs Date of test 20. 1. 13

No. of Certificate 11946 Can each boiler be worked separately Area of fire grate in each boiler 25 1/2 No. and Description of safety valves to each boiler 2 - Spring loaded Area of each valve 4.43 Pressure to which they are adjusted 105lbs

Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no

Smallest distance between boilers or uptakes and bunkers or ~~woodwork~~ 14" Mean dia. of boilers 16'-0" Length 9'-0"

Material of shell plates Steel Thickness 9/16 Range of tensile strength 28/32 Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams D.R. long. seams D.R. DBB. Diameter of rivet holes in long. seams 5/16 Pitch of rivets 5"

Area of plates or width of butt straps 10" Per centages of strength of longitudinal joint rivets 109.4 Working pressure of shell by rules 104lbs Size of manhole in shell 16" x 12" Size of compensating ring 7 1/2" x 9/16" No. and Description of Furnaces in each boiler 2 - plain Material steel Outside diameter 3'-0" Length of plain part top 5'-6" Thickness of plates crown 5/16" bottom 5'-10" bottom 3/32"

Description of longitudinal joint weld No. of strengthening rings Nil Working pressure of furnace by the rules 120lbs Combustion chamber plates: Material Steel Thickness: Sides 14/32 Back 1/2" Top 14/32 Bottom 5/8" Pitch of stays to ditto: Sides 8 1/2" x 8 1/2" Back 8 1/2" x 8 1/2"

1. Top 10" x 8 1/2" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 100lbs Material of stays Steel Diameter at smallest part 9/16" Area supported by each stay 42 1/4" Working pressure by rules 106lbs End plates in steam space: Material Steel Thickness 24/32"

2. Pitch of stays 20" x 15" How are stays secured D.N. Working pressure by rules 102lbs Material of stays Steel Diameter at smallest part 3.26"

Area supported by each stay 300" Working pressure by rules 113lbs Material of Front plates at bottom Steel Thickness 23/32" Material of Lower back plate Steel Thickness 23/32" Greatest pitch of stays 12 1/2" x 8 1/2" Working pressure of plate by rules 156lbs Diameter of tubes 3 1/4"

Pitch of tubes 4 1/2" x 4 1/2" Material of tube plates Steel Thickness: Front 23/32" Back 5/8" Mean pitch of stays 9" Pitch across wide water spaces 13 1/2" Working pressures by rules 101lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 6 1/2" x 3/4" (double) Length as per rule 2'-4 1/2" Distance apart 10" Number and pitch of Stays in each 2-8 1/2"

Working pressure by rules 104lbs Superheater or Steam chest; how connected to boiler None 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

3. Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

The foregoing is a correct description,
MUNRO & HOUSTON, LIMITED Manufacturer.
M. J. Munro

Dates of Survey: During progress of work in shops - - - See accompanying Report. Is the approved plan of boiler forwarded herewith Yes.

while building: During erection on board vessel - - - Report. Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey in accordance with the Rules and approved plan, securely fitted on board and its safety valves adjusted under steam.

The materials and workmanship are good.

Survey Fee ... built on Machinery Report When applied for, 191

Travelling Expenses (if any) £ : : When received, 191

P. J. Brown
 Engineer Supervisor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW 18 MAR. 1913

Assigned See minute on accompanying machinery report.

Lloyd's Register Foundation
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