

REPORT ON BOILERS.

No. 27087

Received at London Office WED. 7 NOV. 1917

Date of writing Report 22nd Oct 1917 When handed in at Local Office 24th Oct 1917 Port of SUNDERLAND
 No. in Survey held at SUNDERLAND Date, First Survey See Machinery report Last Survey 191
 Reg. Book. Donkey Boiler of S.S. Tenterden Tons { Gross 4127
one on the Buckley Built at Sunderland By whom built J. L. Thompson & Sons Ltd Net 2589
 Engines made at Sunderland By whom made J. Dickinson & Sons Ltd When made 1917
 Boilers made at " By whom made " When made 1917
 Registered Horse Power " Owners Norfolk & North American S.S. Co Ltd Port belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel J. L. Thompson & Sons

Letter for record P Total Heating Surface of Boilers 731 Is forced draft fitted No No. and Description of
 Boilers one single-ended Working Pressure 90 lbs Tested by hydraulic pressure to 180 lbs Date of test 11/8/17
 No. of Certificate 3419 Can each boiler be worked separately Yes Area of fire grate in each boiler 26.5 No. and Description of
 Safety valves to each boiler 2 direct spring Area of each valve 4.9 Pressure to which they are adjusted 90 lbs
 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 on deck dia. of boilers 9'-10 7/8" Length 9'-6"
 Material of shell plates steel Thickness 9/16" Range of tensile strength 28.5-32 tons Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams S. R. loop long. seams T. R. C. Diameter of rivet holes in long. seams 15/16" Pitch of rivets 3 3/16"
 Lap of plates or width of butt straps 6 3/8" Per centages of strength of longitudinal joint rivets 87.83 Working pressure of shell by
 Rules 90.75 lbs Size of manhole in shell 16" x 12" Size of compensating ring 7 7/8" x 9 1/16" plate 73.68
 Boiler 2 plain Material steel Outside diameter 34 1/2" Length of plain part 70" Thickness of plates crown 1/2"
 Description of longitudinal joint S. butt strap No. of strengthening rings 1 Working pressure of furnace by the rules 105.5 lbs Combustion chamber
 Plates: Material steel Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 5/8" Pitch of stays to ditto: Sides 10 7/8" x 1 1/2" Back 2 1/2" x 10"
 Top 1 1/2" x 7 1/2" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 97.25 lbs Material of stays steel Diameter at
 Smallest part 1.45 Area supported by each stay 125 Working pressure by rules 93.4 lbs End plates in steam space: Material steel Thickness 2 1/2" x 2 1/2"
 Pitch of stays 14 1/2" x 15" How are stays secured d. n. & w. Working pressure by rules 93.5 lbs Material of stays steel Diameter at smallest part 2.03
 Area supported by each stay 217.5 Working pressure by rules 97 lbs Material of Front plates at bottom steel Thickness 2 3/32" Material of
 Lower back plate steel Thickness 2 1/32" Greatest pitch of stays 12 1/4" x 12 1/2" Working pressure of plate by rules 97.25 lbs Diameter of tubes 3 1/4"
 Pitch of tubes 4 1/2" x 4 1/2" Material of tube plates steel Thickness: Front 2 3/32" Back 9/16" Mean pitch of stays 9" x 9" Pitch across wide
 Water spaces 1 3/4" Working pressures by rules 93.5 lbs Girders to Chamber tops: Material steel Depth and thickness of
 Girder at centre 5 5/8" x 1 1/4" Length as per rule 25 23/32" Distance apart 7 1/2" Number and pitch of Stays in each 1
 Working pressure by rules 102.5 lbs Superheater or Steam chest: how connected to boiler none Can the superheater be shut off and the boiler worked
 Separately Yes Diameter Yes Length Yes Thickness of shell plates Yes Material Yes Description of longitudinal joint Yes Diam. of rivet
 Holes Yes Pitch of rivets Yes Working pressure of shell by rules Yes Diameter of flue Yes Material of flue plates Yes Thickness Yes
 If stiffened with rings Yes Distance between rings Yes Working pressure by rules Yes End plates: Thickness Yes How stayed Yes
 Working pressure of end plates Yes Area of safety valves to superheater Yes Are they fitted with easing gear Yes

The foregoing is a correct description,

J. L. Thompson & Sons, Limited.

Manufacturer.

Is the approved plan of boiler forwarded herewith YesTotal No. of visits 1

Dates { During progress of
 of Survey { work in shops - -
 while { During erection on
 building { board vessel - - -

See Machinery
 report

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

This boiler has been built under special survey
 the materials used are good, and the workmanship
 is satisfactory.

Survey Fee £ charged on
 Travelling Expenses (if any) £ Machinery report
 When applied for, 191
 When received, 191

Charles Cooper
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

TUE. NOV. 13 1917.

Assigned

W483-0221

Lloyd's Register
 Foundation