

REPORT ON BOILERS.

Mdb. No. 4448
Sta. No. 22683

Port of MIDDLESBROUGH-ON-TEES.

Received at London Office

1906
THUR. 29 MAR 1906

No. in Survey held at Stockton & Date, first Survey 21. 12. 05 Last Survey 26 March 1906
Reg. Book. on the Donkey Boiler No. 1991 for S. L. Fynn (Number of Visits 76) Tons { Gross 3802.72
Net 2462.35
Master Rasmus Olsen Built at Sunderland By whom built J. L. Thompson & Sons When built 1906
Engines made at Sunderland By whom made J. Dickinson & Sons when made 1906
Boilers made at Sunderland By whom made J. Dickinson & Sons when made 1906
Registered Horse Power Owners Jacob Christensen Port belonging to Bergen

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel John Sponner & Sons

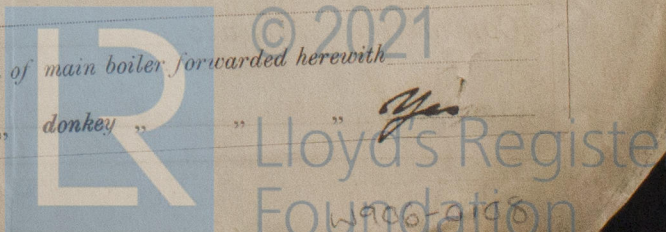
Letter for record a Total Heating Surface of Boilers 770 sq Is forced draft fitted No. and Description of
Boilers One Cyl Multitubular Working Pressure 90 lbs Tested by hydraulic pressure to 130 lbs Date of test 14. 2. 06
No. of Certificate 3604 Can each boiler be worked separately ✓ Area of fire grate in each boiler 32 sq No. and Description of
safety valves to each boiler 2 spring Patent Area of each valve 7.07 sq 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 10'-0" Length 9'-6"
Material of shell plates Steel Thickness 19/32 Range of tensile strength 28/32 Are the shell plates welded or flanged No
Descrip. of riveting: cir. seams 2.5 in long. seams 2.5 in Diameter of rivet holes in long. seams 15/16 Pitch of rivets 3 1/16
Lap of plates or width of butt straps 6 1/2 Per centages of strength of longitudinal joint rivets 81% Working pressure of shell by
rules 91 lbs Size of manhole in shell 16" x 12" Size of compensating ring 5 1/2" x 13 1/16" No. and Description of Furnaces in each
boiler Two plain Material Steel Outside diameter 3'-0" Length of plain part top 6'-1" Thickness of plates crown 17/32
Description of longitudinal joint Welded No. of strengthening rings — Working pressure of furnace by the rules 76 lbs Combustion chamber
plates: Material Steel Thickness: Sides 9/16 Back 7/16 Top 9/16 Bottom 2 1/32 Pitch of stays to ditto: Sides 8 1/2" x 9 1/4" Back 9 1/2" x 9"
Top 9" x 9 1/4" If stays are fitted with nuts or riveted heads riveted Working pressure by rules 90 lbs Material of stays Iron Diameter at
smallest part 1 1/4" Area supported by each stay 85.5 sq Working pressure by rules 101 lbs End plates in steam space: Material Steel Thickness 3/4"
Pitch of stays 1 1/2" x 1 1/2" How are stays secured riveted with 1 3/4" x 3/4" Material of stays Iron Diameter at smallest part 4'-3"
Area supported by each stay 306.2 sq Working pressure by rules 105 lbs Material of Front plates at bottom Steel Thickness 3/4" Material of
Lower back plate Steel Thickness 3/4" Greatest pitch of stays 13" x 9" Working pressure of plate by rules 142 lbs Diameter of tubes 3 1/4"
Pitch of tubes 4 3/4" x 4 3/8" Material of tube plates Steel Thickness: Front 3/4" Back 1 1/16" Mean pitch of stays 13.6" Pitch across wide
water spaces 14" Working pressures by rules 90 lbs Girders to Chamber tops: Material Steel Depth and thickness of
girder at centre 6 1/4" x 1 1/4" Length as per rule 2'-1 1/4" Distance apart 9" Number and pitch of Stays in each One 9 1/2"
Working pressure by rules 91 lbs 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 —
Working pressure of end plates — Area of safety valves to superheater — Are they fitted with easing gear —

VERTICAL DONKEY BOILER— No. Description Manufacturers of steel
Made at By whom made When made Where fixed
Working pressure tested by hydraulic pressure to No. of Certificate Fire grate area Description of safety valves
No. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can
enter the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile
strength Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets
Lap of plating Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates
Radius of do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace
Thickness of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown
plates Stayed by Diameter of uptake Thickness of uptake plates Thickness of water tubes

The foregoing is a correct description,
THOMAS SUDRON & CO LIMITED. Manufacturer. of Donkey Boilers

Dates of Survey while building { During progress of work in shops - - - 1905 December 21
During erection on board vessel - - - 1906 January 4, 24, 26, 28, Feb'y 6, 7, 9, 12, 14
Total No. of visits

Is the approved plan of main boiler forwarded herewith



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

This boiler has been constructed under Special Survey the materials and workmanship are good & efficient & when tested with hydraulic pressure was found tight and satisfactory. The boiler has been sent to Amsterdam to be fitted on board the vessel.

Boiler examined under steam and safety Valves adjusted, same satisfactory.

RECEIVED
LLOYD'S REGISTER

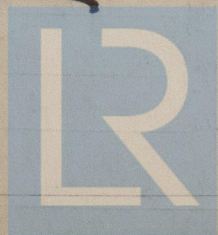
Certificate (if required) to be sent to
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee...	£	:	:	When applied for,
Special	£	:	:	2. 2. 1906
Donkey Boiler Fee ...	£	2	2	0
Travelling Expenses (if any) £	:	:	:	5. 2. 1906

And Geo. A. Wilner Rnr Coomber
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute FRI. 30 MAR 1906

Assigned



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Foundation