

Unclaimed letter for shipment to China - App^d London 18th April & 12th November 1918

Rpt. 5.

REPORT ON BOILERS.

No. 100

REC'D NEW YORK Dec. 2, 1918

Received at London Office M... 1918

Date of writing Report 31st Oct 1918 When handed in at Local Office 10 Port of Chicago

No. in Survey held at Rainier, Wash Date, First Survey 18th July 1918 Last Survey 24th Oct 1918

Reg. Book. on the Multitubular Boilers to order of T. W. Ford & Co. New York (Number of Visits) Tons Net

Master Built at By whom built When built

Engines made at By whom made when made

Boilers made at Rainier By whom made Frumman, N.Y.C. when made 1918

Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Lucas & McKinnis Steel Co.

Letter for record a. Total Heating Surface of Boilers 1612^{sq} ft Is forced draft fitted No. and Description of Boilers One Cyl. 7' x 12' S. End Working Pressure 100^{lb} Tested by hydraulic pressure to 200^{lb} Date of test 24.10.18

No. of Certificate 53 Can each boiler be worked separately Area of fire grate in each boiler 27.5^{sq} ft No. and Description of Safety valves to each boiler 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 8'-6" Length 8'-6"

Material of shell plates S. Thickness 19/32ⁱⁿ Range of tensile strength 62720^{lb} Are the shell plates welded or flanged

Description of riveting: cir. seams L.D.R. long. seams L.D.R. Diameter of rivet holes in long. seams 1 1/16 Pitch of rivets 3 3/4

Width of plates 5 1/4 Per centages of strength of longitudinal joint 78 Working pressure of shell by rules 101[#] Size of manhole in shell 16" x 12" Size of compensating ring 33" x 33" No. and Description of Furnaces in each boiler 2. Plain Material S. Outside diameter 34" Length of plain part Thickness of plates 1/2"

Description of longitudinal joint D.B.S. No. of strengthening rings Working pressure of furnace by the rules 112[#] Combustion chamber

Material S. Thickness: Sides 7/16 Back 7/16 Top 7/16 Bottom 3/4 Pitch of stays to ditto: Sides 6 1/2 x 5 Back 6 1/2 x 5

Working pressure by rules 104[#] Material of stays I. Diameter at smallest part 3.14 Area supported by each stay 42.25^{sq} ft Working pressure by rules 107[#] End plates in steam space: Material S. Thickness 1 1/16

How are stays secured D.N. Working pressure by rules 108[#] Material of stays I. Diameter at smallest part 3.14

Area supported by each stay 196^{sq} ft Working pressure by rules 120[#] Material of Front plates at bottom S. Thickness 1 1/16 Material of back plate S. Thickness 1 1/16 Greatest pitch of stays 20^{deg} Working pressure of plate by rules 112[#] Diameter of tubes 3"

Material of tube plates S. Thickness: Front 1 1/16 Back 5/8 Mean pitch of stays 10 x 8 Pitch across width 13" Working pressures by rules 100[#] Girders to Chamber tops: Material S. Depth and thickness of girder at centre 6 1/2 x 7 3/8 Length as per rule 24" Distance apart 7 1/2" Number and pitch of Stays in each 3 @ 5^{deg}

Working pressure by rules 115[#] Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked

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

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 Date of test 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

Description of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets

Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates

No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace

Description of joint Working pressure of furnace by rules Thickness of furnace crown

Radius of do. Stayed by Diameter of uptake Thickness of uptake plates

Thickness of water tubes

The foregoing is a correct description,

 Manufacturer.

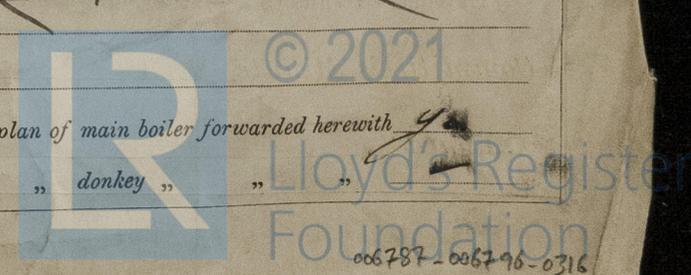
During progress of work in shops 1918. Jul 18 Aug 28. Sep 10. 26 Oct 12. 24.

During erection on board vessel

Total No. of visits

Is the approved plan of main boiler forwarded herewith

" " " donkey " " " " " "



006787-006796-0316

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

This Boiler has been constructed under Special Survey, the materials and workmanship employed in its manufacture, so far as can be seen, are sound and good, and found satisfactory under test.

Mark on boiler

*No 53
LLOYDS TEST
200 lb.
24-10-18 W.L*

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 ...	£	70	00	19
Donkey Boiler Fee ...	£	:	:	When received,
Travelling Expenses (if any)	£	39	85	19

W. Lawson
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

Assigned *Not for Committee*



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Foundation