

REPORT ON BOILERS.

No. 1682

Received at London Office

Date of writing Report Dec. 7th 1918 When handed in at Local Office Dec. 7th 1918 Port of Newport News Va
No. in Survey held at Newport News Va Date, First Survey Dec. 14th 1917 Last Survey Dec 2nd 1918
Reg. Book. 4 on the STEEL SS "F. J. ASCHER" (Number of Visits 6) Tons } Gross 8294
Net 6332
Master ✓ Built at Newport News By whom built Newport News S.D.D.C. When built 1918-12
Engines made at Newport News By whom made Newport News S.D.D.C. When made 1918-12
Boilers made at Newport News By whom made Newport News S.D.D.C. When made 1918-12
Registered Horse Power 533 Owners Standard Oil Co of N.J. Port belonging to Newport News

MULTITUBULAR BOILERS—~~MAIN, AUXILIARY OR DONKEY.~~—Manufacturers of Steel LUXENS 1 + S Co

Letter for record S. Total Heating Surface of Boilers 1223 Is forced draft fitted no No. and Description of
Boilers 1. S.E. SCOTCH Working Pressure 180 Tested by hydraulic pressure to 270 Date of test 21.2.18
No. of Certificate 192 Can each boiler be worked separately yes Area of fire grate in each boiler 39 No. and Description of
Safety valves to each boiler Two 2 1/2" Spring Area of each valve 4.90 Pressure to which they are adjusted 180 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 20" Mean dia. of boilers 10'-11" Length 10'-10 1/2"
Material of shell plates S. Thickness 3/32" Range of tensile strength 28-32 Are the shell plates welded or flanged no
Descrip. of riveting: cir. seams LOR long. seams T.B.S.T.R Diameter of rivet holes in long. seams 1 3/16" Pitch of rivets 6 7/8"
Lap of plates or width of butt straps 17 3/4" Per centages of strength of longitudinal joint rivets 103. Working pressure of shell by
rules 184 Size of manhole in shell 16" x 12" Size of compensating ring 38" x 34" No. and Description of Furnaces in each
boiler 2. MORROW Material S. Outside diameter 43 1/16" Length of plain part top ✓ Thickness of plates crown 17"
bottom 3/32"
Description of longitudinal joint WELD No. of strengthening rings ✓ Working pressure of furnace by the rules 190 Combustion chamber
plates: Material S. Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 7/8" Pitch of stays to ditto: Sides 7 1/2" x 7 1/2" Back 7 1/2" x 7 1/2"
Top 7 1/2" x 7 1/2" If stays are fitted with nuts or riveted heads NUTS Working pressure by rules 194 Material of stays S. Area at
smallest part 1.48 Area supported by each stay 56 Working pressure by rules 210 End plates in steam space: Material S. Thickness 3/32"
Pitch of stays 14" x 14" How are stays secured T.N. Working pressure by rules 188 Material of stays S. Area at smallest part 2 1/4"
Area supported by each stay 196 Working pressure by rules 211 Material of Front plates at bottom S. Thickness 3/4" Material of
Lower back plate S. Thickness 3/4" Greatest pitch of stays 7 1/2" x 7 1/2" Working pressure of plate by rules 326 Diameter of tubes 2 3/4"
Pitch of tubes 4" x 3 3/4" Material of tube plates S. Thickness: Front 3/4" Back 3/4" Mean pitch of stays 9 3/4" Pitch across wide
water spaces 12 3/4" Working pressures by rules 212 Girders to Chamber tops: Material S. Depth and thickness of
girder at centre Two 9" x 7 1/4" Length as per rule 33" Distance apart 7" Number and pitch of Stays in each 3:- 7 1/2"
Working pressure by rules 204 Steam dome: description of joint to shell ✓ % of strength of joint
Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed
SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to
Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

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

Newport News Shipbuilding & Dry Dock Co.

By

Manufacturer.

Dates of Survey { During progress of work in shops -- } Dec 14th 20th 1917 Jan 23rd Feb 6th 1918
{ During erection on board vessel --- } Dec 2nd 1918
building { Total No. of visits 6 }
Is the approved plan of main boiler forwarded herewith no

Plans sent with N.N. Rep. No. 1588-

donkey

no

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

The boiler has been built in accordance with the approved plans and rules for the intended pressure 180 lbs sq". The workmanship and materials are good and render the vessel eligible to have the record T.B. 180 lbs in the Register Book.

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 £	:	:	7.12.18
Donkey Boiler Fee \$ 10.00	:	:	When received, 21.12.18
Travelling Expenses (if any) £	:	:	21.12.18

New York DEC 17 1918

Wm H. Marsden
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

Assigned

See other Report



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Foundation