

REC'D NEW YORK JUL 25 1921

See 870 1st Entry Report No. 3569.

pt. 5.

REPORT ON BOILERS.

No. 1028

Received at London Office SAT. 13 AUG. 1921

Date of writing Report March 18 1921 When handed in at Local Office March 19 1921 Port of Seattle, Wash. U.S.A.

No. in Survey held at Seattle Date, First Survey January 15th Last Survey February 15th 1921

Reg. Book. on the Que Donkey Boiler for the Union Construction Co. Oakland, Cal. Hull No. 21 Tons } Gross
Net

Master Built at By whom built When built

Engines made at By whom made When made

Boilers made at Seattle By whom made Commercial Boiler Works When made 1921

Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR~~ DONKEY.—Manufacturers of Steel Luke's Iron & Steel Co.

Letter for record New York Nov. 3. 1920 Total Heating Surface of Boilers 1304 sq ft Is forced draft fitted No. and Description of

Boilers Que Scotch Marine Working Pressure 120 lbs Tested by hydraulic pressure to 180 lbs Date of test Feb-15-1921

No. of Certificate 49 Can each boiler be worked separately Area of fire grate in each boiler 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 11'-3 7/8 Length 10'-7 3/4

Material of shell plates Steel Thickness 7/8 Range of tensile strength 62720 lbs Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams Double Lap long. seams Triple Butt Diameter of rivet holes in long. seams 4 7/8 Pitch of rivets 6"

~~Top of plates or~~ width of butt straps 14" Per centages of strength of longitudinal joint rivets 92.9 Working pressure of shell by

rules 126 Size of manhole in shell 12" x 16" Size of compensating ring 28" x 30" x 1/2" No. and Description of Furnaces in each

boiler Two. Morrison Material Steel Outside diameter 40" Length of plain part top — Thickness of plates crown 7/16

Description of longitudinal joint Welded No. of strengthening rings — Working pressure of furnace by the rules 157 Combustion chamber

plates: Material Steel Thickness: Sides 1/2 Back 5/8 Top 1/2 Bottom 5/8 Pitch of stays to ditto: Sides 7" x 7 1/2" Back 7" x 7 3/4"

Top 7" x 7 1/2" If stays are fitted with nuts or riveted heads Top - Nuts Working pressure by rules 121.6 Material of stays Iron Area at

smallest part 1.227 Area supported by each stay 57.23 Working pressure by rules 121.6 End plates in steam space: Material Steel Thickness 3/4

Pitch of stays 13 1/2 x 14 How are stays secured Double Nuts Working pressure by rules 133 Material of stays Steel Area at smallest part 2.76

Area supported by each stay 189 sq" Working pressure by rules 133 Material of Front plates at bottom Steel Thickness 3/4 Material of

Lower back plate Steel Thickness 3/4 Greatest pitch of stays 10" x 18" Working pressure of plate by rules 124 Diameter of tubes 2 3/4

Pitch of tubes 3 3/4 x 3 7/8 Material of tube plates Steel Thickness: Front 3/4 Back 5/8 Mean pitch of stays 9.5 Pitch across wide

water spaces 13.5 Working pressures by rules 124 Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 8 x (5/8 + 5/8) Length as per rule 30 Distance apart 7" Number and pitch of Stays in each 3-7" x 7 1/2"

Working pressure by rules 180 Steam dome: description of joint to shell None % 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

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

Thickness of water tubes

The foregoing is a correct description,
Commercial Boiler Works Manufacturer.

Dates { During progress of work in shops -- Jan. 15-24-29 Feb 5-11-15
Survey while building { During erection on board vessel ---
Total No. of visits Shop 6

Is the approved plan of main boiler forwarded herewith

Lloyd's Register Foundation
W606-0023

