

REPORT ON BOILERS.

No. 1021

MON. 13 JUN. 1921

Received at London Office

Spt. 5.

Date of writing Report January 25th 1921 When handed in at Local Office January 28th 1921 Port of Seattle Wash. U.S.A.
 No. in Survey held at Seattle Date, First Survey December 22-1920 Last Survey January 24-1921
 Reg. Book. One Donkey Boilers for E. M. Standifer Construction Corp. Hull No. 19 (Number of Visits 7) Gross Tons 19 Net Tons 19
 Master By whom built Built at Seattle By whom built Commercial Boiler Works When built 1921
 Engines made at Seattle By whom made Commercial Boiler Works When made 1921
 Boilers made at Seattle By whom made Commercial Boiler Works When made 1921
 Registered Horse Power Owners Port belonging to Midvale Steel Co.

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Midvale Steel Co.

Letter for record New York Sep. 15-1920 Total Heating Surface of Boilers 1303 sq ft Is forced draft fitted Yes No. and Description of Boilers One (1) Scotch Marine

Working Pressure 180 lbs Tested by hydraulic pressure to 270 lbs Date of test 24-1-21

No. of Certificate 48 Can each boiler be worked separately Area of fire grate in each boiler No. and Description of Area of fire grate in each boiler

Safety valves to each boiler Area of each valve Pressure to which they are adjusted Area of each valve

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'-1 1/4" Length 11'-0"

Material of shell plates Steel Thickness 1 1/4" Range of tensile strength 62200 to 63800 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 1 1/2" Pitch of rivets 7 1/2"

Gap of plates or width of butt straps 16" Per centages of strength of longitudinal joint 86.5 Working pressure of shell by 85.8

Rules 200 Size of manhole in shell 11" x 15" Size of compensating ring 1 1/4" x 27" x 30" No. and Description of Furnaces in each boiler One (2) Marine

Material Steel Outside diameter 45" Length of plain part 17'-32" Thickness of plates 17'-32"

Description of longitudinal joint Welded No. of strengthening rings 185 Working pressure of furnace by the rules 185 Combustion chamber plates: Material Steel

Thickness: Sides 1/2" Back 1/2" Top 1/2" Bottom 1/2" Pitch of stays to ditto: Sides 8" x 8" Back 7 1/2" x 8"

Top 8" x 8" If stays are fitted with nuts or riveted heads Other - Riveted Working pressure by rules 189 Material of stays Hot Iron Area at smallest part 1-84"

Area supported by each stay 64" Working pressure by rules 215 End plates in steam space: Material Steel Thickness 1 1/2"

Pitch of stays 15" x 16" How are stays secured Double Nuts Working pressure by rules 198 Material of stays Steel Area at smallest part 6.49

Area supported by each stay 240 Working pressure by rules 281 Material of Front plates at bottom Steel Thickness 3/4" Material of Lower back plate Steel

Thickness 3/4" + 5/8" Greatest pitch of stays 14" Working pressure of plate by rules 258 Diameter of tubes 3"

Pitch of tubes 4" Material of tube plates Steel Thickness: Front 3/4" Back 3/4" Mean pitch of stays 10" Pitch across wide water spaces 13

Working pressures by rules 239 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 9 1/2" x (3 1/2" + 3 1/2")

Length as per rule 32" Distance apart 8" Number and pitch of Stays in each 3 - 8"

Working pressure by rules 222 Steam dome: description of joint to shell None % of strength of joint None

Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes Thickness of shell plates

Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed Working pressure of shell by rules

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

Date 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 length

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

Per centage of strength of joint 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 Radius of do.

Stayed by Diameter of uptake Thickness of uptake plates Thickness of water tubes

ing.

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

ing.

Dates During progress of work in shops - - - Dec 22. Jan 3-9-14-15-19-24

Survey During erection on board vessel - - -

while Total No. of visits Shop 7

Is the approved plan of main boiler forwarded herewith Yes

ing.

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

This Donkey Boiler has been built under special survey and in accordance with the approved plan, the material tested as required by the rules of the Society and the workmanship of good quality, tested by hydraulic pressure and found tight and sound. When installed in a vessel classed in Lloyd's Register Shipping will be eligible, in my opinion, to be noted in the Register Book.

Marks and Numbers

NO 262
LLOYD'S TEST
T.P. 270 lbs
W.P. 180 "
JF 24-1-21

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 Survey \$ 43 :	45	:	January 28 1921
Donkey Boiler Fee £	:	:	When received,
Travelling Expenses (if any) £	:	:	Receipt of need 1921

Committee's Minute

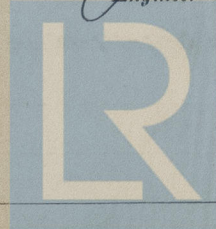
Assigned

New York

MAY 31 1921

See A.C. Rpt 633

James Fowler
Engineer Surveyor to Lloyd's Register of Shipping.



© 2021

Lloyd's Register
Foundation