pt. 5a.

REPORT ON BOILERS.

No. 20624

Received at London Office WED. AUG. 31 1921

Date of writing Report 6th August 1921. When handed in at Local Office 15/8/21 191 Port of New York

No. in Reg. Book. Survey held at Kearny, New Jersey. Date, First Survey Last Survey 3rd August 1921

on the Twin Screw Steel Oil Tanker. J. A. MOFFETT. JR. Hull 50 (Number of Visits) Tons Gross 10396·61 Net 7725.

Master G. S. Spinney Built at Kearny, N.J. By whom built Federal Ship Building Co. When built 1921.

Engines made at Kearny, N.J. By whom made Federal Ship Building Co When made 1921.

Boilers made at Kearny, N.J. By whom made Federal Ship Building Co When made 192.

~~Registered~~ INDICATED Horse Power 3500 Owners Standard Oil Co of New Jersey Port belonging to Bayonne.

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

Letter for record S) **Total Heating Surface of Boilers** 1234 ft² Is forced draft fitted No **No. and Description of Boilers** 1-2 Furnace Single Ended Scotch **Working Pressure** 180# Tested by hydraulic pressure to 270# Date of test 27-12-20

No. of Certificate 405 Can each boiler be worked separately ✓ **Area of fire grate in each boiler** 39 ft². No. and Description of safety valves to each boiler 1-2½ Twin Spring Area of each valve 4·9 □" Pressure to which they are adjusted 180#.

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~~ 72" ~~Mean~~ INSIDE dia. of boilers 10'-11" ✓ Length 10'-10½"

Material of shell plates S Thickness 1" ✓ Range of tensile strength 26·8 to 32 Long. Are the shell plates welded or flanged No.

Descrip. of riveting: cir. seams D.R.LAP. long. seams TR/DBS. Diameter of rivet holes in long. seams 1 3/16" ✓ Pitch of rivets 6⅜" ✓

~~Lap of plates or~~ width of butt straps 17¾" Per centages of strength of longitudinal joint rivets 103·2 plate 81·3 Working pressure of shell by rules 183# Size of manhole in shell 16"×12" ✓ Size of compensating ring 34"×30"

No. and Description of Furnaces in each boiler 2 Morison Material S ✓ Outside diameter 43 3/16" ✓ Length of plain part top bottom ✓ Thickness of plates crown bottom 17/32" ✓

Description of longitudinal joint Welded No. of strengthening rings ✓ Working pressure of furnace by the rules 204# Combustion chamber plates: Material S Thickness: Sides ⅝" ✓ Back ⅝" Top ⅝" ✓ Bottom ¾" Pitch of stays to ditto: Sides 7"×7" Back 7"×7¼" ✓

Top 7"×7" If stays are fitted with nuts or riveted heads Top Nuts Rest Riveted Working pressure by rules T: 276# S: 196 B: 196 Material of stays S. Area at smallest part 1·52 □" Area supported by each stay 49 □" Working pressure by rules T: 248# S: 248 B: 240 End plates in steam space: Material S Thickness 29/32" ✓

Pitch of stays 14"×14" How are stays secured D. NUTS. Working pressure by rules 187·8# Material of stays S. Area at smallest part 3·97 □"

Area supported by each stay 196 □" Working pressure by rules 211# Material of Front plates at bottom S Thickness ¾" ✓ Material of Lower back plate S Thickness ¾" + ¾" Doubler for wide spaces Greatest pitch of stays 12¾"×7¼" Working pressure of plate by rules 302# Diameter of tubes 2¾"

Pitch of tubes 4"×3¾" Material of tube plates S Thickness: Front ¾" + ¾" Doubler for wide spaces ✓ Back ¾" Mean pitch of stays 8"×11¼" Pitch across wide water spaces 12¾" ✓ Working pressures by rules 279# Girders to Chamber tops: Material S Depth and thickness of girder at centre 10"×⅝" ✓ Length as per rule 33" ✓ Distance apart 7" ✓ Number and pitch of Stays in each 4 @ 7" ✓

Working pressure by rules 236# 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

FEDERAL SHIPBUILDING CO.
ENGINE DEPARTMENT.

The foregoing is a correct description,
John T. Dalcher. Manufacturer.

Dates of Survey while building { During progress of work in shops - - } See Machy rpt
{ During erection on board vessel - - - }

Is the approved plan of boiler forwarded herewith

Total No. of visits

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

The above donkey boiler has been constructed under Special Survey in accordance with the approved plan. The material & workmanship so far as can be seen are sound and good & proved satisfactory under test

Survey Fee ... ... £ : : } When applied for, 191
Travelling Expenses (if any) £ : : } When received, 191

J. Flockhart.
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute New York AUG 16 1921

Assigned See N.Y. 20624 Machy Rept

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