

REPORT ON BOILERS.

No. 926.

REC'D NEW YORK Sub. 11-1920
 Date of writing Report Jan 29 1920 When handed in at Local Office Jan 29 1920 Port of Seattle, W. A. Received at London Office MAR 1920
 No. in Survey held at Abertown, Wash. Date, First Survey Jan 28 1920 Last Survey Jan 28 1920
 Reg. Book. Abertown, Wash. (Number of Visits 1)
 on the Vertical Dry Boiler of 16 Barquentine "FOREST FRIEND" Gross 1614.89 Tons Net 1436.02
 Master R. Karchison Built at Abertown, W. By whom built Grays Harbor Ship Co. When built 1920
 Engines made at _____ By whom made _____
 Boilers made at East Shoreburg By whom made International Boiler Works When made 1919
 Registered Horse Power _____ Owners Grays Harbor Ship Co. Port belonging to Abertown, W.

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

(Letter for record _____) **Total Heating Surface of Boilers** _____
 Is forced draft fitted _____
Boilers _____
 Working Pressure _____
 Tested by hydraulic pressure to _____
 No. and Description of _____
 No. of Certificate _____
 Can each boiler be worked separately _____
 Area of fire grate in each boiler _____
 Date of test _____
 safety valves to each boiler _____
 Area of each valve _____
 No. and Description of _____
 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 _____
 Length _____
 Material of shell plates _____
 Thickness _____
 Range of tensile strength _____
 Are the shell plates welded or flanged _____
 Descrip. of riveting: cir. seams _____
 long. seams _____
 Diameter of rivet holes in long. seams _____
 Pitch of rivets _____
 Lap of plates or width of butt straps _____
 Per centages of strength of longitudinal joint _____
 Working pressure of shell by _____
 rules _____
 Size of manhole in shell _____
 Size of compensating ring _____
No. and Description of Furnaces in each _____
 boiler _____
 Material _____
 Outside diameter _____
 Length of plain part _____
 Thickness of plates _____
 Description of longitudinal joint _____
 No. of strengthening rings _____
 Working pressure of furnace by the rules _____
 Combustion chamber _____
 plates: Material _____
 Thickness: Sides _____
 Back _____
 Top _____
 Bottom _____
 Pitch of stays to ditto: Sides _____
 Back _____
 Top _____
 If stays are fitted with nuts or riveted heads _____
 Working pressure by rules _____
 Material of stays _____
 Area at _____
 smallest part _____
 Area supported by each stay _____
 Working pressure by rules _____
 End plates in steam space: Material _____
 Thickness _____
 Pitch of stays _____
 How are stays secured _____
 Working pressure by rules _____
 Material of stays _____
 Area at smallest part _____
 Area supported by each stay _____
 Working pressure by rules _____
 Material of Front plates at bottom _____
 Thickness _____
 Material of _____
 power back plate _____
 Thickness _____
 Greatest pitch of stays _____
 Working pressure of plate by rules _____
 Diameter of tubes _____
 Pitch of tubes _____
 Material of tube plates _____
 Thickness: Front _____
 Back _____
 Mean pitch of stays _____
 Pitch across wide _____
 inter spaces _____
 Working pressures by rules _____
 Girders to Chamber tops: Material _____
 Depth and thickness of _____
 der at centre _____
 Length as per rule _____
 Distance apart _____
 Number and pitch of Stays in each _____
 Working pressure by rules _____
 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 _____
 of Test _____
 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler _____
 Pressure to which each is adjusted _____
 Is Easing Gear fitted _____

VERTICAL DONKEY BOILER—

No. One Description Vertical Tubular Manufacturers of steel Middle Steel
 at E. Shoreburg by whom made International Boiler Works When made 1919 Where fixed For 42 (Main Deck) Casemate, Pa. Working pressure 125
 by hydraulic pressure to 190 Date of test 16-9-19 No. of Certificate 372 Fire grate area 12.4 Description of safety valves Spring Loaded
 safety valves Two Area of each 4.908 Pressure to which they are adjusted 110 lbs If fitted with easing gear Yes If steam from main boilers can _____
 the donkey boiler _____
 Dia. of donkey boiler 53 29/32 (11) Length 9'-0" Material of shell plates Steel Thickness 13/32" Range of tensile _____
 Descrip. of riveting long. seams D.P. Butt Joint Dia. of rivet holes 7/8" Whether punched or drilled Drilled Pitch of rivets 4 3/16"
 plating _____
 Per centage of strength of joint _____
 Rivets _____
 Plates _____
 Working pressure of shell by rules 145 lbs Thickness of shell crown plates 1/2"
 of do Steel No. of Stays to do. beard Dia. of stays _____
 Diameter of furnace Top 4'-0" Bottom 4'-0" Length of furnace 24 1/2"
 Description of joint Ang. Lap Working pressure of furnace by rules 129 lbs Thickness of furnace crown _____
 Radius of do. Steel Stayed by Tubes beared Diameter of uptake 24" Thickness of uptake plates 2 1/8 cast
 ss of water tubes 13 B&W

The foregoing is a correct description,
Grays Harbor Ship Co.
Manufacturer.

During progress of work in shops _____
 During erection on board vessel _____
 Total No. of visits _____
 Is the approved plan of main boiler forwarded herewith _____
 " " " donkey " " _____
 " " " " " _____

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

The Boiler has been installed on board
 ship together with the necessary mountings & fittings
 tested under steam working conditions
 & found satisfactory — Safety valves adjusted
 The workmanship is
 of Good Quality, Eligible in my opinion to be classed &
 noted in Register Book as D.B 1-20.. 125 lbs

Philadelphia Report No 3465
 attached herewith

also attached
 Philadelphia Report No 3466 as
 Boiler covered by this report was
 damaged in transit beyond repair.

It is submitted that
 this vessel is eligible for
THE RECORD + D.B. 1-20 125 lbs

JWD. 12/3/20

ARR

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 .. £
 Special £
 Donkey Boiler Fee .. \$15
 (Installation)
 Travelling Expenses (if any) \$21

When applied for.
 July 5th 1920
 When received.
 12/3/20

C. Nastic
 Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute
 Assigned

New York FEB 17 1920
 + D.B. 20 - 125 #



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 Foundation