

REPORT ON BOILERS.

No. 1847

Port of *Barrow-in-Furness*Received at London Office *THU MAY 20 1920*No. in Survey held at *Barrow-in-Furness* Date, first SurveyLast Survey *11th May 1920*

Reg. Book.

(Number of Visits)

on the *M.V. "NARRAGANSETT"*Gross *6889*
Tons Net *4906*Master *W. Gray - 04.* Built at *Barrow-in-Furness* By whom built *Vickers Ltd.*When built *1920*Engines made at *Barrow-in-Furness* By whom made *Vickers Ltd.*when made *1920.*Boilers made at *Barrow-in-Furness* By whom made *Vickers Ltd.*when made *1920.*Registered Horse Power ☒Owners *Anglo-American Oil Co Ltd.*Port belonging to *Barrow.*MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR DONKEY.~~ Manufacturers of Steel *W. Beadmore & Co Ltd. H. Bessemer & Co.*(Letter for record (+)) Total Heating Surface of Boilers *2551 ft²* Is forced draft fitted *yes.* No. and Description ofBoilers *One cylindrical multitubular Working Pressure 120 lbs* Tested by hydraulic pressure to *240 lbs* Date of test *13-11-19.*No. of Certificate *294.* Can each boiler be worked separately ☒ Area of fire grate in each boiler *Oil fired.* No. and Description ofsafety valves to each boiler *Three - Spring loaded.* Area of each valve *12.56 ft²* Pressure to which they are adjusted *125 lbs.*Are they fitted with easing gear *yes.* 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 *6'-0"* Inside Mean dia. of boilers *15'-6"* Length *11'-0"*Material of shell plates *Steel* Thickness *7/8"* Range of tensile strength *28/32 tons* Are the shell plates welded or flanged *No.*Descrip. of riveting: cir. seams *DR Lap.* long. seams *J.R. Double Butt* Diameter of rivet holes in long. seams *15/16"* Pitch of rivets *6 3/4"*Lap of plates or width of butt straps *14"* Per centages of strength of longitudinal joint rivets *86.87%* Working pressure of shell byrules *122 lbs* Size of manhole in *End plate* *16" x 12"* Size of compensating ring *Flanged ring 25/32"* No. and Description of Furnaces in eachboiler *3 - Morrison* Material *Steel* Outside diameter *4'-1 1/4"* Length of plain part *top* Thickness of plates *crown 7/16"*Description of longitudinal joint *Weld* No. of strengthening rings ☒ Working pressure of furnace by the rules *124 lbs* Combustion chamberplates: Material *Steel* Thickness: Sides *9/16"* Back *9/16"* Top *9/16"* Bottom *1/16"* Pitch of stays to ditto: Sides *9 1/2" x 9 1/2"* Back *10 1/2" x 8 1/4"*Top *9 1/2" x 9 1/2"* If stays are fitted with nuts or riveted heads *Nuts* Working pressure by rules *121 lbs* Material of stays *Iron* Areasmallest part *1.84 ft²* Area supported by each stay *90.25 ft²* Working pressure by rules *155 lbs* End plates in steam space: Material *Steel* Thickness *1 1/32"*Pitch of stays *23 1/2" x 21"* How are stays secured *Double Nuts* Working pressure by rules *120 lbs* Material of stays *Steel* AreaArea supported by each stay *99.5 ft²* Working pressure by rules *125 lbs* Material of Front plates at bottom *Steel* Thickness *25/32"* Material ofLower back plate *Steel* Thickness *3/4"* Greatest pitch of stays *13 1/2" x 10 1/2"* Working pressure of plate by rules *132 lbs* Diameter of tubes *3"*Pitch of tubes *4 1/8" x 4 1/8"* Material of tube plates *Steel* Thickness: Front *25/32"* Back *3/4"* Mean pitch of stays *12 3/8"* Pitch across widewater spaces *13 1/2"* Working pressures by rules *120 lbs.* Girders to Chamber tops: Material *Steel* Depth and thickness ofgirder at centre *8 9/16" x 1 1/2"* Length as per rule *34"* Distance apart *9 1/2"* Number and pitch of Stays in each *3 - 9 1/2"*Working pressure by rules *121 lbs* Superheater or Steam chest: how connected to boiler *None* Can the superheater be shut off and the boiler workedseparately ☒ Diameter ☒ Length ☒ Thickness of shell plates ☒ Material ☒ Description of longitudinal joint ☒ Diam. of rivetholes ☒ Pitch of rivets ☒ Working pressure of shell by rules ☒ Diameter of flue ☒ Material of flue plates ☒ Thickness ☒If stiffened with rings ☒ Distance between rings ☒ Working pressure by rules ☒ End plates: Thickness ☒ How stayed ☒Working pressure of end plates ☒ Area of safety valves to superheater ☒ Are they fitted with easing gear ☒

VERTICAL DONKEY BOILER— No. Description Manufacturers of steel

Made at By whom made When made Where fixed

Working pressure tested by hydraulic pressure to 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 Plates 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 Stayed by Diameter of uptake Thickness of uptake plates Thickness of water tubes

The foregoing is a correct description,
FOR VICKERS LIMITED.

Manufacturer.

Dates of Survey while building
During progress of work in shops - *Aug 19, 19, 22, 26, 29, Sept. 5, 8, 12, 17, 20, 26, 30, Oct. 2, 7, 9, 11, 15, 18, 22, 27, 29, 31, Nov. 3, 5, 8, 10, 12, 13, 18, 21, 25.*
During erection on board vessel - *Jan 1920, 13, 23, Feb 3, 6, 13, 25, Mar. 9, 19, Apr. 12, 21, 26, May 5, 11.*
Total No. of visits *43.*Is the approved plan of *main boiler* forwarded herewith *yes.*

TUES. 14 OCT 1924

WED. 15 APR 1925

TUE. 4 DEC. 1922

FRI. 5 MAR 1927

FRI. 9 JAN 1925

TUE. 22 JUL 1921

TUE. 20 NOV. 1923

W608-0164

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

This boiler has been constructed under special survey, & the materials & workmanship are sound & good. It has been tested by hydraulic press - sure to 220 lbs per sq. in. & found tight & sound. After being efficiently fitted on board, its safety valves were adjusted under steam to 125 lbs, the thicknesses of the adjusting washers being Port 7/16" Centre 7/16" Stead 23/32". For opinions as to class see Machinery Report.

This boiler is fitted for oil fuel - flash point above 150° F.

Certificate (if required) to be sent to

| | | | |
|--------------------------------|---|-------------------|-------------------|
| The amount of Entry Fee... | £ | See | When applied for, |
| Special ... | £ | Mach ^y | 19 |
| Donkey Boiler Fee ... | £ | Report. | When received, |
| Travelling Expenses (if any) £ | | | 19 |

Committee's Minute

TUE. JUN. 11 1920

Assigned

WED. 3 AUG. 1921

FRI. 5 MAY. 1922

John Houston
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

FRI. OCT. 15 1920

FRI. DEC. 31 1920

TUE. 3 JAN. 1922

FRI. 1 FEB. 1921

FRI. 3 FEB. 1922

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TUE. AUG. 15 1922

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