

REPORT ON BOILERS.

No. 5341

FEB 26 1941

Received at London Office

Date of writing Report Dec. 26 1940 When handed in at Local Office Dec. 26 1940 Port of New Orleans, La.

No. in Survey held at New Orleans, La. Date, First Survey Oct. 28 Last Survey Dec. 19 1940

on the S.S. "JANELEW" (Number of Visits 21/0) Tons { Gross 6085 Net —

lasted Built at Oakland, Pa. By whom built Moore S.B. Co. Yard No. --- When built 1920

Engines made at New Jersey By whom made W. & A. Fletcher Co. Engine No. — When made 1920

Boilers made at San Francisco By whom made Moore & Scott Boiler No. — When made 1920

Indicated shaft Horse Power 2800 Owners Lochinver Ltd. Port belonging to —

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel — (Letter for Record —)

Total Heating Surface of Boilers 2915 sq. ft. each Boiler Is forced draught fitted Yes Coal or Oil fired Oil

No. and Description of Boilers 3 Multitubular Boilers Working Pressure 210

Tested by hydraulic pressure to 315 Date of test 5/12/40 No. of Certificate — Can each boiler be worked separately Yes

Area of Firegrate in each Boiler — No. and Description of safety valves to each boiler 1 - 3 1/2" Duplex Safety Valve

Area of each set of valves per boiler { per Rule 16.2 sq. in. as fitted 19.22 Sq. in. Pressure to which they are adjusted 210 Are they fitted with easing gear Yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler None

Smallest distance between boilers or uptakes and bunkers or woodwork 14" Is oil fuel carried in the double bottom under boilers No

Smallest distance between shell of boiler and tank top plating 14" Is the bottom of the boiler insulated Yes

Largest internal dia. of boilers 15' - 2" Length 11' - 0" Shell plates: Material Steel Tensile strength 60,000

Thickness 1 5/8" Are the shell plates welded or flanged — Description of riveting: circ. seams { end Double Riveted inter. None

Long. seams treble riveted Diameter of rivet holes in { circ. seams 1 7/16" long. seams 1 9/16" Pitch of rivets { 4" 9.66"

Percentage of strength of circ. end seams { plate 83.85% rivets 89.80% Percentage of strength of circ. intermediate seam { plate None rivets None

Percentage of strength of longitudinal joint { plate 83.85% rivets 89.80% Working pressure of shell by Rules 230

Thickness of butt straps { outer 1 1/8" inner 1 3/8" No. and Description of Furnaces in each Boiler 3 - Morrison Corrugated

Material Steel Tensile strength 60,000 Smallest outside diameter 48 1/16"

Length of plain part { top 12" bottom 14 11/16" Thickness of plates { crown 21/32" bottom 21/32" Description of longitudinal joint None

Dimensions of stiffening rings on furnace or c.c. bottom None Working pressure of furnace by Rules 222

End plates in steam space: Material Steel Tensile strength 58,240 Thickness 1 1/4" Pitch of stays 17 1/2" x 18"

How are stays secured Double nuts Working pressure by Rules 215.38

Tube plates: Material { front Steel back Steel Tensile strength { 60,000 58,240 Thickness { 13/16" 13/16"

Lean pitch of stay tubes in nests 7 1/2" x 7 1/2" Pitch across wide water spaces 7 1/2" x 13" Working pressure { front 283 back 278

Girders to combustion chamber tops: Material Steel Tensile strength 60,000 Depth and thickness of girder

Centre 11" x 3/4" Length as per Rule — Distance apart 8 3/4" No. and pitch of stays

each 4 @ 7" Working pressure by Rules 260 Combustion chamber plates: Material Steel

Tensile strength 58,240 Thickness: Sides 11/16" Back 11/16" Top 11/16" Bottom 15/16"

Pitch of stays to ditto: Sides 7" x 7 3/4" Back 7 1/4" x 7 3/4" Top 7" x 8 3/4" Are stays fitted with nuts or riveted over screwed and riveted over

Working pressure by Rules 223 Front plate at bottom: Material steel Tensile strength 58,240

Thickness 13/16" Lower back plate: Material Steel Tensile strength 58,240 Thickness 13/16"

Pitch of stays at wide water space 7 3/4" x 13" Are stays fitted with nuts or riveted over Screwed stays & riveted over.

Working Pressure 310 Main stays: Material Steel Tensile strength 60,000

Diameter { At body of stay 3 5/8" or 4" No. of threads per inch 6 Area supported by each stay 17 1/2" x 18"

Working pressure by Rules 240 lbs. Screw stays: Material Steel Tensile strength 60,000

Diameter { At turned off part 1 5/8" or 1 5/8" No. of threads per inch 12 Area supported by each stay 7 1/4" x 7 3/4"

Working pressure by Rules **218 lbs.** Are the stays drilled at the outer ends **Yes** Margin stays: Diameter ^{At turn of part,} **1 3/4"**
 No. of threads per inch **12"** Area supported by each stay **910"** Working pressure by Rules **260 lbs.**
 Tubes: Material **Steel** External diameter ^{Plain} **2 1/2"** Thickness ^{Stay} **2 1/2"** **.134** No. of threads per inch **12**
 Pitch of tubes **3 3/4" x 3 3/4"** Working pressure by Rules **236** Manhole compensation: Size of opening in
 shell plate **12" x 16"** Section of compensating ring **Flanged** No. of rivets and diameter of rivet holes
 Outer row rivet pitch at ends Depth of flange if manhole flanged **4"** Steam Dome: Material
 Tensile strength Thickness of shell Description of longitudinal joint
 Diameter of rivet holes Pitch of rivets Percentage of strength of joint ^{Plate}
 Rivets
 Internal diameter Working pressure by Rules Thickness of crown No. and diameter of
 stays Inner radius of crown Working pressure by Rules
 How connected to shell Size of doubling plate under dome Diameter of rivet holes and pitch
 of rivets in outer row in dome connection to shell

Type of Superheater **Foster** Manufacturers of ^{Tubes}
^{Steel castings}
 Number of elements **32** Material of tubes **Steel** Internal diameter and thickness of tubes **1 5/8**
 Material of headers **Cast Steel** Tensile strength Thickness **9/16"** Can the superheater be shut off and
 the boiler be worked separately **Yes** Is a safety valve fitted to every part of the superheater which can be shut off from the boiler **Yes**
 Area of each safety valve **1.77 sq. in.** Are the safety valves fitted with easing gear **No.** Working pressure as per
 Rules **210** Pressure to which the safety valves are adjusted **210** Hydraulic test pressure
 tubes **315** castings and after assembly in place **315** Are drain cocks or valves fit
 to free the superheater from water where necessary **Yes**

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with **Yes**

The foregoing is a correct description,

Manufacture

Dates of Survey ^{During progress of} work in shops --
^{while} building ^{During erection on} board vessel ---
 Are the approved plans of boiler and superheater forwarded herewith **Yes**
 (If not state date of approval.)
 Total No. of visits

Is this Boiler a duplicate of a previous case If so, state Vessel's name and Report No.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) **The boilers of this vessel have been
 examined internally and externally with mountings & all safety valves adjusted under steam.
 Vessel to have notation of examined 12,40.
 Details of repairs effected are enclosed on form 9**

Survey Fee £ : : When applied for, 19
 Travelling Expenses (if any) £ : : When received, 19

J. A. Laing
A. Murray
 Engineer, Surveyor to Lloyd's Register of Shipping

TUE. 4 NOV 1941

Committee's Minute **NEW YORK JAN 15 1941**

Assigned **See Machinery Rpt.**

See other with
 N. O. 5341

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