

REPORT ON BOILERS.

No. 57644

Received at London Office 11 NOV 1936 17 DEC 1936

Date of writing Report 19 When handed in at Local Office 7. 11. 1936 Port of Glasgow

No. in Reg. Book Survey held at Glasgow Date, First Survey 29. 4. 36 Last Survey 3-11-1936

on the new steel S/S "JERSEY. QUEEN". (Number of Visits 36) Tons {Gross Net

Master Built at Burntisland By whom built Burntisland S/B Co. Yard No. 204 When built 1936

Engines made at Glasgow By whom made David Rowan & Co. Ld. Engine No. 998 When made 1936

Boilers made at Glasgow By whom made David Rowan & Co. Ld. Boiler No. 998 When made 1936

Nominal Horse Power 129. Owners James & Hannah Adams S/S Co. Ld. Port belonging to James

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Plates by Steel B. of Scotland Ld. Bars by A. Schiller Ld. (Letter for Record (S))

Total Heating Surface of Boilers 1953 sq ft Is forced draught fitted yes Coal or Oil fired coal

No. and Description of Boilers one single ended Working Pressure 200

Tested by hydraulic pressure to 350 Date of test 22-9-36 No. of Certificate 19812 Can each boiler be worked separately -

Area of Firegrate in each Boiler 44 5/8 sq ft No. and Description of safety valves to each boiler Two direct spring

Area of each set of valves per boiler {per Rule 11-35 as fitted 11-88 Pressure to which they are adjusted 200 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 on woodwork - 26" Is oil fuel carried in the double bottom under boilers ✓

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

Largest internal dia. of boilers 14'9" Length 10'6" Shell plates: Material steel Tensile strength 29.33 tons

Thickness 1 9/32 Are the shell plates welded or flanged no Description of riveting: circ. seams {end NR inter - long. seams UBS TR Diameter of rivet holes in {circ. seams F 1 1/4" B 1 3/8" Pitch of rivets {F 3.209 B 3.68" long. seams 1 3/8" 9 7/16"

Percentage of strength of circ. end seams {plate F 61 B 62.6 rivets F 52.3 B 50. Percentage of strength of circ. intermediate seam {plate rivets

Percentage of strength of longitudinal joint {plate rivets combined 85.2 92.1 88.9 Working pressure of shell by Rules 201

Thickness of butt straps {outer 3 1/8" inner 1 3/32 No. and Description of Furnaces in each Boiler Three Deighton

Material steel Tensile strength 26-30 tons Smallest outside diameter 3'7 5/16"

Length of plain part {top bottom Thickness of plates {crown 1 9/32 bottom 3/32 Description of longitudinal joint welded

Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 200

End plates in steam space: Material steel Tensile strength 26.30 tons Thickness 1 1/4" Pitch of stays 19 1/4" x 19"

How are stays secured WN Working pressure by Rules 200

Tube plates: Material {front steel back Thickness {2 1/2" 2 5/32 Tensile strength {26-30 tons

Mean pitch of stay tubes in nests 10 7/32 Pitch across wide water spaces 14 1/4 Working pressure {front 202 back 209

Girders to combustion chamber tops: Material steel Tensile strength 28-32 tons Depth and thickness of girder

at centre 2 @ 8 3/8" x 7 1/8" Length as per Rule 2'-7 1/32" Distance apart 9 1/2" No. and pitch of stays

in each 3 @ 7 1/2" Working pressure by Rules 201 Combustion chamber plates: Material steel

Tensile strength 26-30 tons Thickness: Sides 2 3/32 Back 1 1/8" Top 2 3/32 Bottom 2 3/32

Pitch of stays to ditto: Sides 10 1/8" x 8 3/4" Back 9 1/4" x 8 1/4" Top 9 1/2" x 7 1/2" Are stays fitted with nuts or riveted over nuts

Working pressure by Rules 203 Front plate at bottom: Material steel Tensile strength 26-30 tons

Thickness 2 9/32 Lower back plate: Material steel Tensile strength 26-30 tons Thickness 5 1/4"

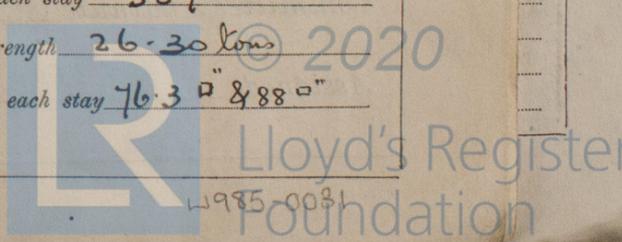
Pitch of stays at wide water space 13 1/2" Are stays fitted with nuts or riveted over nuts

Working Pressure 205 Main stays: Material steel Tensile strength 28-32 tons

Diameter {At body of stay, 3" No. of threads per inch 6 Area supported by each stay 389 sq in

Working pressure by Rules 202 Screw stays: Material steel Tensile strength 26-30 tons

Diameter {At turned off part, 1 5/8" & 1 3/4" No. of threads per inch 9 Area supported by each stay 76.3 sq in & 88 sq in



Working pressure by Rules 200 & 205 Are the stays drilled at the outer ends no Margin stays: Diameter ^{At turned off part,} 1 7/8" or ^{Over threads} 1 7/8"

No. of threads per inch 9 Area supported by each stay 93.5 sq Working pressure by Rules 227

Tubes: Material Iron External diameter ^{Plain} 3 1/4" Thickness ^{8 W.S.} 1/4" 7/16" 3/8" No. of threads per inch 9

Pitch of tubes 4 1/2" x 4 3/8" Working pressure by Rules 230 Manhole compensation: Size of opening in shell plate 15 1/2" x 19 1/2" Section of compensating ring 9 1/4" x 1 9/32" No. of rivets and diameter of rivet holes 32 @ 1 3/8"

Outer row rivet pitch at ends 9 9/16" Depth of flange if manhole flanged 3" Steam Dome: Material none

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 none Manufacturers of ^{Tubes} _____ ^{Steel castings} _____

Number of elements _____ Material of tubes _____ Internal diameter and thickness of tubes _____

Material of headers _____ Tensile strength _____ Thickness _____ Can the superheater be shut off and the boiler be worked separately _____ Is a safety valve fitted to every part of the superheater which can be shut off from the boiler _____

Area of each safety valve _____ Are the safety valves fitted with easing gear _____ Working pressure as per Rules _____ Pressure to which the safety valves are adjusted _____ Hydraulic test pressure: tubes _____, castings _____ and after assembly in place _____ Are drain cocks or valves fitted to free the superheater from water where necessary _____

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

The foregoing is a correct description,
For David Rowan & Co. Ltd Manufacturer.
Archd. W. Grierson

Dates of Survey ^{During progress of work in shops - -} _____ Are the approved plans of boiler and superheater forwarded herewith yes (If not state date of approval.)

^{while building} ^{During erection on board vessel - - -} _____

SEE ACCOMPANYING MACHINERY REPORT.

Total No. of visits _____

Is this Boiler a duplicate of a previous case yes If so, state Vessel's name and Report No. London Queen. G. R. N° 53254

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

The materials and workmanship are good.

The boiler has been constructed under Special Survey. It is being sent to Burntisland to be fitted in the vessel.

7/11/36

This boiler has been efficiently fitted on board, examined under steam & safety valves adjusted to 200 lbs.

Survey Fee ... £ See Machinery Rpt When applied for, _____ 19 _____

Travelling Expenses (if any) £ _____ When received, _____ 19 _____

L. Davis
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 10 NOV 1936 *MB*

Assigned SEE ACCOMPANYING MACHINERY REPORT.

TUE. 22 DEC 1936

see Lth. Mackay
J. E. 19232

Rpt	F
Date	
No. Reg	588
Build	
Own	
201	
TEST	
Generat	
Volts	
TIME OF DAY	ST. PRE. LBS. AT STOP
9.0.	10
9.30	10
10.0	10
10.30	10
11.0	10
11.30	10
12.0	10
12.30	10
1.0	10
1.30	10
2.0	10
2.30	10
3.0	10
Speed at	
Speed at	
Temperat	
Temperat	
Temperat	
Remark	
Instrum	
Earth T	
Switche	
Joint B	

