

REPORT ON BOILERS.

No. 14265.

Received at London Office

11 OCT 1946

Writing Report 19 When handed in at Local Office 10/10/1946 Port of Belfast.

Survey held at Belfast Date, First Survey 6 Dec. 1945 Last Survey 28 June 1946

on the S/S "BALAENA" (Number of Visits 61) Gross 15,760 Tons Net 8224

Belfast By whom built Messrs. Ireland & Wolff Ltd Yard No. 1327 When built 1946
Belfast By whom made Messrs. Ireland & Wolff Ltd Engine No. 1327 When made 1946
Belfast By whom made Messrs. Ireland & Wolff Ltd Boiler No. 1327 When made 1946
United Wharves Ltd. Port belonging to London.

ICAL BOILERS (PRESS - BLUBBER)

Belfast By whom made Messrs. Ireland & Wolff Ltd Boiler No. 1/10 When made 1946 Where fixed Factory Space
Messrs. Colville Ltd

Heating Surface of Boiler Is forced draught fitted Coal or Oil fired

Description of Boilers 10 PRESS (BLUBBER) BOILERS Working Pressure 70 lbs/sq. in.

hydraulic pressure to 140 lbs/sq. in. Date of test 2.4.46 / 1.5.46 (See below for actual date) No. of Certificate 1321/1330 incl

fire grate in each Boiler No. and description of safety valves to each boiler Reducing valves into safety valves on line

each set of valves per boiler per Rule as fitted Pressure to which they are adjusted Are they fitted with easing gear

Whether steam from main boilers can enter the donkey boiler Smallest distance between boiler or uptake and bunkers

work Is oil fuel carried in the double bottom under boiler Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated Largest internal dia. of boiler 9' 10 3/4" Height 12' 9" OA.

Material Steel Tensile strength 29/33 tons Thickness 9/16"

shell plates welded or flanged No. If fusion welded, state name of welding firm Messrs. Ireland & Wolff Ltd Belfast.

the requirements of the Rules for Class 3 vessels been complied with Yes Description of riveting: circ. seams

Fusion welded (E.F.W.) Dia. of rivet holes in circ. seams Pitch of rivets Percentage of strength of circ. seams

itudinal joint plate rivets Thickness of butt straps outer inner Shell Crown: Whether complete hemisphere, dished partial

l, or flat Dished partial sphere Material Steel Tensile strength 26/30 tons Thickness 20p 13/16" Rivet 13/16"

Description of Furnace: Plain, spherical, or dished crown Material

strength Thickness External diameter top bottom Length as per Rule

support stays circumferentially and vertically Are stays fitted with nuts or riveted over

Radius of spherical or dished furnace crown

ss of Ogee Ring Diameter as per Rule

stion Chamber: Material Tensile strength Thickness of top plate

if dished Thickness of back plate Diameter if circular

as per Rule Pitch of stays

s fitted with nuts or riveted over Diameter of stays over thread

ates: Material front back Tensile strength Thickness Mean pitch of stay tubes in nests

rising shell, dia. as per Rule front back Pitch in outer vertical rows Dia. of tube holes FRONT BACK

alternate tube in outer vertical rows a stay tube

to Combustion Chamber Tops: Material Tensile strength

nd thickness of girder at centre Length as per Rule

apart No. and pitch of stays in each

Crown Stays: Material

Tensile strength

Diameter { at body of stay
or
over threads

No. of threads per inch

Screw Stays: Material

Tensile strength

Diameter { at turned off part
or
over threads

No. of threads per inch

Are the stays drilled at the outer ends

Tubes: Material

External diameter { plain
stay

Thickness

No. of threads per inch

Pitch of tubes

Manhole Compensation: Size of opening in shell plate

Section of compensating ring

No. of rivets

of rivet holes. Fusion welded to shell Outer row rivet pitch at ends

Depth of flange if manhole flanged

Uptake: External diameter

Thickness of uptake plate

Cross Tubes: No.

External diameters

Thickness of plates

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

The foregoing is a correct description

For HARTLEY AND WOLFE, LIMITED

Manly

Dates of Survey while building { During progress of work in shops - - - 25. 28. 30 Feb. 1. 4. 6. 7. 9. 11. 12. 13. 14. 15. 17. 18. 19 20. 21. 23. 27 Mar. 1. 4. 5. 6. 7. 8. 9. 12. 13. 14. 19. 28. 29 Apr. 1. 2. 3. 4. 5. 9. 10. 11. 12. 14. 15. 24. 25. May 1. 4 20 June 11. 14. 28.

Is the approved plan of boiler forwarded herewith (If not state date of approval.)

Yes. 4.11

Total No. of visits

61

Is this Boiler a duplicate of a previous case.

No

If so, state Vessel's name and Report No.

GENERAL REMARKS

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

under Special Survey in accordance with the Rules of Class 3 Fusion welded pressure vessels and with the approved plan. The materials and workmanship are good.

During the course of construction check welding tests have been in accordance with the requirements of the Rules for Class 2 vessels and the results in all cases found satisfactory.

These boilers have been efficiently installed onboard the vessel.

DATES OF HYDRAULIC TEST

No 1 B/R	2.4.46	CERTIF. No 1321	No 6 B/R	12.4.46	CERTIF. No 1326
2	3.4.46	1322	7	15.4.46	1327
3	4.4.46	1323	8	24.4.46	1328
4	5.4.46	1324	9	25.4.46	1329
5	10.4.46	1325	10	1.5.46	1330

Survey Fee ... £ : :
Travelling Expenses (if any) £ : :

When applied for 19
When received 19

Gen. S. Thomas

Engineer Surveyor to Lloyd's Register of S

FRI. 22 NOV 1946

Date
Committee's Minute. See F.E. mch. rpt.



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