

5b.

GLASGOW REPORT No. 46230
No. 9609
REPORT ON BOILERS.

Received at London Office 22 SEP 1926

of writing Report

19

When handed in at Local Office

21-9-1926 Port of Belfast

Survey held at

Belfast

Date, First Survey

24th April 1925

Last Survey

17th Sept 1926

Book.

on the

"AIR RECEIVERS" No 7289

M.V. KOOLINDA

(Number of Visits 14)

Tons { Gross
Net

at

Belfast

By whom built

Harland & Wolff Ltd.

Yard No.

When built 1926

nes made at

By whom made

Engine No.

When made

ers made at

By whom made

Boiler No.

When made

Port belonging to

RTICAL DONKEY BOILER.

AIR RECEIVERS.

By whom made

David Colville & Sons Ltd.

Boiler No.

When made

Where fitted

Manufacturers of Steel

David Colville & Sons Ltd.

CAPACITY OF EACH RECEIVER

700 c

Is forced draught fitted

Coal or Oil fired

Heating Surface of Boiler

and Description of Boilers

Two Horizontal Dome Ended Built

Working pressure 356 LBS.

MARK ON RECEIVERS 40

ed by hydraulic pressure to

585 LBS.

Date of test

17.9.26

of Firegrate in each Boiler

No. and Description of safety valves to each boiler

Two receivers combined: One - Double Direct Spring.

of each set of valves per boiler

Pressure to which they are adjusted 356 lbs./sq. in.

Are they fitted with easing gear Open Spring Type.

whether steam from main boilers can enter the donkey boiler

Smallest distance between boiler or uptake and bunkers

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

6'-4 3/16"

LENGTH 24'-7"

plates: Material

Steel

Tensile strength

28-32 lbs.

Thickness

1 3/32"

the shell plates welded or flanged

No.

Description of riveting: circ. seams

end SR.
inter. SR.

long. seams

T.R. N.B.S.

of rivet holes in

circ. seams 1 5/16"
long. seams 1 3/16"

Pitch of rivets

3-36"
8"

Percentage of strength of circ. seams

plate 60.9
rivets 60.3

of Longitudinal joint

plate 85.1
rivets 97.5
combined 89.8

Working pressure of shell by rules

375 lbs

Thickness of butt straps

outer 27"
inner 31"

ENDS

Whether complete hemisphere, dished partial spherical, or flat

dished

Material

Steel

ile strength

26-30 tons

Thickness 1 3/32 x 1 1/32"

Radius

51"

Working pressure by rules

357 lbs

Description of Furnace: Plain, spherical, or dished crown

Material

Tensile strength

External diameter

Length as per rule

Working pressure by rules

Are stays fitted with nuts or riveted over

of support stays circumferentially

and vertically

Working pressure by rule

Radius of spherical or dished furnace crown

Working pressure by rule

Thickness of Ogee Ring

Diameter as per rule

Working pressure by rule

Combustion Chamber: Material

Tensile strength

Thickness of top plate

as to dished

Working pressure by rule

Thickness of back plate

Diameter if circular

as per rule

Pitch of stays

Are stays fitted with nuts or riveted over

Working pressure of back plate by rules

Plates: Material

from
back

Tensile strength

Thickness

Mean pitch of stay tubes in nests

comprising shell, Dia. as per rule

front
back

Pitch in outer vertical rows

Dia. of tube holes FRONT

stay
plate

BACK

stay
plate

each alternate tube in outer vertical rows a stay tube

Working pressure by rules

ers to combustion chamber tops: Material

Tensile strength

th and thickness of girder at centre

Length as per rule

ances apart

No. and pitch of stays in each

Working pressure by rule

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Lloyd's Register

013404-013416-0291

Crown stays: Material *None* Tensile strength _____ Diameter { at body of stay, _____
 or _____
 over threads _____
 No. of threads per inch _____ Area supported by each stay _____ Working pressure by rules _____
 Screw stays: Material _____ Tensile strength _____ Diameter { at turned off part, _____
 or _____
 over threads _____ No. of threads per inch _____
 Area supported by each stay _____ Working pressure by rules _____ Are the stays drilled at the outer ends _____
 Tubes: Material _____ External diameter { plain _____ Thickness _____
 stay _____
 No. of threads per inch _____ Pitch of tubes _____ Working pressure by rules _____
 Manhole Compensation: Size of opening in shell plate *16" x 12"* Section of compensating ring *None* No. of rivets and dia _____
 of rivet holes _____ Outer row rivet pitch at ends _____ Depth of flange if manhole flanged *4"*
 Uptake: External diameter _____ Thickness of uptake plate _____
 Cross Tubes: No. _____ External diameter _____ Thickness of plates _____

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with

The foregoing is a correct description,
 FOR HARLAND AND WOLFF, LIMITED.

De Lebeck

Manufact

Dates of Survey { During progress of work in shops - *1926*
 while building { *Apr 21 May 8 June 5 16 July 10 13 Aug 15* Is the approved plan of boiler forwarded herewith
 (If not state date of approval.)
 During erection on board vessel - - *14 Sept 11 19 25 Oct 1 1926 Feb 3 Sept 17 14*
 Total No. of visits _____

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

These Air Receivers have been constructed under Special Survey. The materials & workmanship are sound & good. They have been subjected to a satisfactory test by hydraulic pressure. They are intended for a vessel building in Glasgow.

These two air reservoirs have now been properly secured on board and safety valves adjusted as above.

J.D. Boyle
Glasgow, 30-12-26

Survey Fee ... £ *8* : *8* : _____ When applied for, *21-9-1926*
 Travelling Expenses (if any) £ : : _____ When received, *11-10-1926*

Committee's Minute *GLASGOW 11 JAN 1927*
 Assigned *See Gb. Rpt. No 46230*

R. Lee
 Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register
 Foundation