

# REPORT ON BOILERS.

No. 11279.

Received at London Office 25 AUG 1945

Date of writing Report 14<sup>th</sup> Dec 49 When handed in at Local Office 19 Port of Copenhagen

No. in Reg. Book 8058 Survey held at Copenhagen Date, First Survey 28<sup>th</sup> June 1940 Last Survey 14<sup>th</sup> Nov. 1940

on the Steel Tug & Motor Vessel ADELAIDE STAR (Number of Visits 13) Gross 12349 Tons Net 7545

Built at Copenhagen By whom built As Bunnister - Wain's Maskin- & Skibsbyggeri Yard No. 646 When built 1940

Engines made at Copenhagen By whom made As Bunnister - Wain's Maskin- & Skibsbyggeri Engine No. 3013 When made 1940

Boilers made at Belfast By whom made Harland & Wolff Ltd. Boiler No. 15189 When made 1939

Owners Blue Star Line Ltd. Port belonging to London

## VERTICAL DONKEY BOILER.

Made at Belfast By whom made Harland & Wolff Ltd. Boiler No. 15189 When made 1939 Where fixed In the funnel.

Manufacturers of Steel

Total Heating Surface of Boiler Is forced draught fitted 12503 Coal or Oil fired

No. and Description of Boilers Belfast Report Working pressure 80 lb/sq in

Tested by hydraulic pressure to Please see Date of test No. of Certificate

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler

Area of each set of valves per boiler per rule Pressure to which they are adjusted 80 lb/sq in Are they fitted with easing gear yes

State whether steam from main boilers can enter the donkey boiler No main boiler fitted Smallest distance between boiler or uptake and bunkers or woodwork No bunkers or wood

Is oil fuel carried in the double bottom under boiler No Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated yes Largest internal dia. of boiler Height

Shell plates: Material Tensile strength Thickness

Are the shell plates welded or flanged Description of riveting: circ. seams end long. seams

Dist. of rivet holes in circ. seams Pitch of rivets Percentage of strength of circ. seams plate of Longitudinal joint plate

Working pressure of shell by rules Thickness of butt straps outer inner

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat Material

Tensile strength Thickness Radius Working pressure by rules

Description of Furnace: Plain, spherical, or dished crown Material NO Tensile strength

Thickness External diameter top Length as per rule Working pressure by rules

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

Diameter of stays over thread Radius of spherical or dished furnace crown Working pressure by rule

Thickness of Ogee Ring Diameter as per rule D Working pressure by rule

Combustion Chamber: Material Tensile strength Thickness of top plate

Radius if dished Working pressure by rule Thickness of back plate Diameter if circular

Length as per rule Pitch of stays Are stays fitted with nuts or riveted over

Diameter of stays over thread Working pressure of back plate by rules

Tube Plates: Material front Tensile strength Thickness Mean pitch of stay tubes in nests

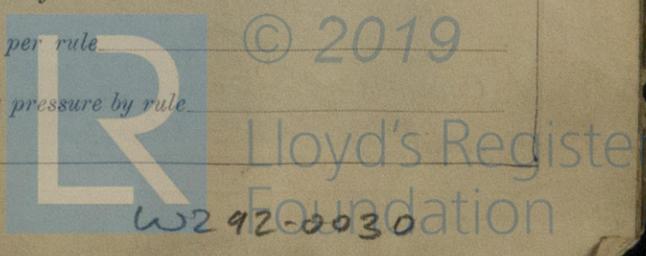
If comprising shell, Dia. as per rule front Pitch in outer vertical rows stay Dia. of tube holes FRONT stay BACK stay

Is each alternate tube in outer vertical rows a stay tube Working pressure by rules front back

Girders to combustion chamber tops: Material Tensile strength

Depth and thickness of girder at centre Length as per rule

Distance apart No. and pitch of stays in each Working pressure by rule



**Crown stays:** Material \_\_\_\_\_ 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 { in  
 stay  
 Thickness {  
 No. of threads per inch \_\_\_\_\_ Pitch of tubes \_\_\_\_\_ Working pressure by rules \_\_\_\_\_

**Manhole Compensation:** Size of opening in shell plate \_\_\_\_\_ Section of compensating ring \_\_\_\_\_ No. of rivets and diameter  
 of rivet holes \_\_\_\_\_ 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,

Manufacture \_\_\_\_\_

Dates of Survey { During progress of work in shops - -  
 while building { During erection on board vessel - -  
 1940 June 28 July 1-9-13-16 Aug 5-12-13. Total No. of visits 13.  
 October 11-12-19. November 12-14.

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

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.)

This donkey boiler has been installed on board to our satisfaction

Recommend the vessel to have notation of DB 80 lb.

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

*L. Clausen*

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **FRI. 4 JAN 1946**

Assigned *No Action*



Lloyd's Register Foundation