

REPORT ON BOILERS.

No. 11875

NOV 16 1937

Received at London Office

TRIESTE

Writing Report 8/11/37 When handed in at Local Office 12/11/37 Port of

Survey held at Monfalcone Date, First Survey June 18 Last Survey Oct 6 1937

on the M. S. Cellina (Number of Visits four) Gross 6080 Tons Net 3757

at Trieste By whom built Stab. Tecnico Yard No. 746 When built 1926

made at Trieste By whom made Stab. Tecnico Engine No. - When made 1926

made at Glasgow By whom made Lochran & Co. Ltd Boiler No. 9253 When made 1925

"Italia" S. R. di Navigazione Port belonging to Venise Trieste

VERTICAL DONKEY BOILER. SEE ALSO GENOA REPORT No 14896

at Glasgow By whom made Lochran & Co. Ltd Boiler No. 16778 When made 1925 Where fixed M. S. Cellina

Manufacturers of Steel

Heating Surface of Boiler 500 sq ft Is forced draught fitted yes Coal or Oil fired oil

Description of Boilers Vertical multitubular Working pressure 100 lbs

by hydraulic pressure to 200 lbs Date of test 15.6.37 No. of Certificate 16778

of Firegrate in each Boiler - No. and Description of safety valves to each boiler 2 direct spring loaded

of each set of valves per boiler { per rule 5.430" as fitted 9.80" Pressure to which they are adjusted 100 lbs Are they fitted with easing gear yes

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 yes Smallest distance between base of boiler and tank top plating

18" Is the base of the boiler insulated yes Largest internal dia. of boiler 6'-6" Height 14'-6"

plates: Material Steel Tensile strength 28-32 T Thickness 15/32" & 19/32"

the shell plates welded or flanged no Description of riveting: circ. seams { end single inter. double long. seams double

of rivet holes in { circ. seams 27/32" Pitch of rivets { 2 1/8" Percentage of strength of circ. seams { plate 60.4% rivets 46.1% of Longitudinal joint { plate 68.2% rivets 68.8% combined -

Working pressure of shell by rules 110 lbs Thickness of butt straps { outer - inner -

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

Strength 28-32 T Thickness 27/32" 13/32" Radius 39" Working pressure by rules 144 lbs

Description of Furnace: Plain, spherical, or dished crown Spherical Material Steel Tensile strength 26-30 T

Thickness 1/2" External diameter { top - bottom - Length as per rule - Working pressure by rules -

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

Radius of spherical or dished furnace crown - Working pressure by rule -

Thickness of Ogee Ring 27/32" Diameter as per rule { D 6'-6" a 66" Working pressure by rule 101 lbs

Combustion Chamber: Material - Tensile strength - Thickness of top plate -

Working pressure by rule - Thickness of back plate - Diameter if circular -

Pitch of stays - Are stays fitted with nuts or riveted over -

Working pressure of back plate by rules -

Plates: Material { front Steel back Steel Tensile strength { 26-30 T Thickness { 13/16" 23/32" Mean pitch of stay tubes in nests 12" x 10" x 1 1/16"

Diagonals: Diameter of shell, Dia. as per rule { front 72 3/4" back 65 1/2" Pitch in outer vertical rows { 4" Dia. of tube holes FRONT { stay 2 1/16" plain 2 9/16" BACK { stay 2 1/2" plain 2 1/2"

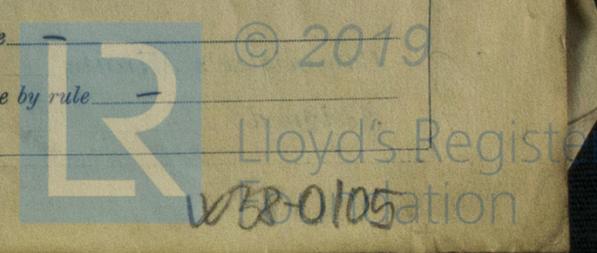
Working pressure by rules { front 102 lbs back 107 lbs

Working pressure by rules { front 102 lbs back 107 lbs

Material Steel Tensile strength -

Length as per rule -

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



REPORT ON BOILERS

Crown stays: Material Tensile strength Diameter $\left\{ \begin{array}{l} \text{at body of stay,} \\ \text{or} \\ \text{over threads.} \end{array} \right. \underline{\hspace{2cm}}$

No. of threads per inch Area supported by each stay Working pressure by rules

Screw stays: Material Tensile strength Diameter $\left\{ \begin{array}{l} \text{at turned off part,} \\ \text{or} \\ \text{over threads.} \end{array} \right. \underline{\hspace{2cm}}$ No. of threads per inch

Area supported by each stay Working pressure by rules Are the stays drilled at the outer ends

Tubes: Material Steel External diameter $\left\{ \begin{array}{l} \text{plain } 2\frac{1}{2}'' \\ \text{stay } 2\frac{1}{2}'' \end{array} \right. \checkmark$ Thickness $\left\{ \begin{array}{l} 11 \text{ L.S.G.} \\ 11/32'' \end{array} \right. \checkmark$

No. of threads per inch 9 \checkmark Pitch of tubes 4" x 3 9/16" \checkmark Working pressure by rules 125

Manhole Compensation: Size of opening in shell plate 12" x 16" \checkmark Section of compensating ring 6" x 1/16" \checkmark No. of rivets and

of rivet holes 36 a 27/32" \checkmark Outer row rivet pitch at ends 4" \checkmark Depth of flange if manhole flanged

Uptake: External diameter Thickness of uptake plate

Cross Tubes: No. External diameters $\left\{ \begin{array}{l} \underline{\hspace{2cm}} \\ \underline{\hspace{2cm}} \end{array} \right.$ Thickness of plates

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

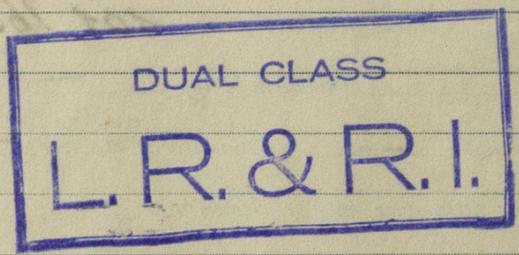
The foregoing is a correct description,

Dates of Survey $\left\{ \begin{array}{l} \text{During progress of} \\ \text{work in shops} \end{array} \right. \underline{\hspace{2cm}}$ Is the approved plan of boiler forwarded herewith
(If not state date of approval.)

while building $\left\{ \begin{array}{l} \text{During erection on} \\ \text{board vessel} \end{array} \right. \underline{1937 \text{ Jun } 18, \text{ Sep } 1, \text{ Oct } 2, 6}$ Total No. of visits four

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) Please see also Genoa Rept. 14

This Donkey Boiler has been installed on board the M. S. Cell and securely fastened. It has been fitted for burning oil and the installation has been made under special survey and in accordance with Section 20 D of the Rules and tested satisfactorily under working conditions. The mountings have been examined and found in order. The safety valves have been examined and adjusted to blow at 100 lbs and it is submitted the boiler is eligible to have the records of DBS 10.37 (NDB made 19 refitted 1937)



Survey Fee £ 200 : When applied for, 13/11 1937

Travelling Expenses (if any) £ : When received, 29/1 1938

31/1

A. Sparrow
 Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute FRI 3 DEC 1937

Assigned Su Gen 15078

