

REPORT ON BOILERS.

No. 10248

Received at London Office

23 DEC 1933

of writing Report Dec 12 1933 When handed in at Local Office Dec 12 1933 Port of TRIESTE

in Survey held at Monfalcone Date, First Survey Oct 19 Last Survey Nov 23 1933

69 on the Marguerite Trimalcy (Number of Visits five) Tons {Gross 12505 Net 5245}

er Built at Monfalcone By whom built Cant. Imm. del'Adr. Yard No. 251 When built 1933

nes made at Turin By whom made Triat Fab. Gr. Mot. Engine No. 1805 When made 1933

Key rs made at Newcastle By whom made R. & W. Hawthorn Leslie & Co. Ld Boiler No. 526 (9548) When made

inal Horse Power 1167 Owners Societe Auxiliaire des Transports Port belonging to Havre

Case see also Newcastle Report No. 88731

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel The Steel Company of Scotland Ltd. Glasgow (Letter for Record S)

Heating Surface of Boilers 4598 sq ft Is forced draught fitted yes Coal or Oil fired oil

and Description of Boilers Two single ended Working Pressure 200 lbs

tested by hydraulic pressure to 350 lbs Date of test 7.6.32 No. of Certificate 582 Can each boiler be worked separately yes

of Firegrate in each Boiler — No. and Description of safety valves to each boiler Two spring loaded

of each set of valves per boiler {per Rule 17.32 sq in as fitted 19.24 sq in Pressure to which they are adjusted 205 lbs Are they fitted with easing gear yes

use of donkey boilers, state whether steam from main boilers can enter the donkey boiler no main Boilers

least distance between boilers or uptakes and bunkers or woodwork — Is oil fuel carried in the double bottom under boilers —

least distance between shell of boiler and tank top plating — Is the bottom of the boiler insulated no

least internal dia. of boilers 14'-1" Length 12'-0" Shell plates: Material Steel Tensile strength 28-32 T/sq in

thickness 19/32 Are the shell plates welded or flanged no Description of riveting: circ. seams {end DR Lap inter. —

seams H. G. & B. P. Diameter of rivet holes in {circ. seams 1 3/8" long. seams 1 3/8" Pitch of rivets {3/8" 9/16"

centage of strength of circ. end seams {plate 64.5 rivets 49 Percentage of strength of circ. intermediate seam {plate — rivets —

centage of strength of longitudinal joint {plate 85.2 rivets 95.8 combined 89.5 Working pressure of shell by Rules 200 lbs

thickness of butt straps {outer 1 7/16" inner 1 7/16" No. and Description of Furnaces in each Boiler 3 marine

material Steel Tensile strength 26-30 T/sq in Smallest outside diameter 3'-6 7/16"

th of plain part {top — bottom — Thickness of plates {crown 19/32" Description of longitudinal joint weld

ensions of stiffening rings on furnace or c.c. bottom — Working pressure of furnace by Rules 204 lbs

plates in steam space: Material Steel Tensile strength 26-30 T/sq in Thickness 1 1/8" Pitch of stays 16 3/4" x 16"

are stays secured H. Nuts Working pressure by Rules 219 lbs

plates: Material {front Steel back Steel Tensile strength {26/30 T/sq in Thickness {1 5/16"

pitch of stay tubes in nests 8 23/32" Pitch across wide water spaces 13 3/4" Working pressure {front 213 lbs back 204 lbs

ers to combustion chamber tops: Material Steel Tensile strength 28-32 T/sq in Depth and thickness of girder

ntre 10" x 2" x 2 1/32". Length as per Rule 34 7/16" Distance apart 6 3/4" Centre 8 1/32" wing No. and pitch of stays

ed ch 3" x 8" Working pressure by Rules 205 lbs Combustion chamber plates: Material Steel

igible strength 26-30 T/sq in Thickness: Sides 2 1/32" Back 5/8" Top 2 1/32" Bottom 7/8"

of stays to ditto: Sides 8" x 7 3/4" Back 7 7/8" x 7 5/8" Top 8 1/32" x 8" Are stays fitted with nuts or riveted over nuts

ing pressure by Rules 223 lbs Front plate at bottom: Material Steel Tensile strength 26-30 T/sq in

ness 15/16" Lower back plate: Material Steel Tensile strength 26-30 T/sq in Thickness 1"

of stays at wide water space 15" Are stays fitted with nuts or riveted over nuts

ing Pressure 248 lbs Main stays: Material Steel Tensile strength 28-32 T/sq in

eter {At body of stay, 2 3/4" No. of threads per inch 6 Area supported by each stay 264 sq in

ing pressure by Rules 248 lbs Screw stays: Material Steel Tensile strength 26-30 T/sq in

eter {At turned off part, 1 5/8" x 1 1/2 No. of threads per inch 9 Area supported by each stay 66 7/8" x 56 1/2" sq in

Working pressure by Rules **223 lbs** Are the stays drilled at the outer ends **no** Margin stays: Diameter { At turned off part, or Over threads **1 3/4" 8 17/8**
No. of threads per inch **9** Area supported by each stay **83.4 sq"** Working pressure by Rules **218 lbs**
Tubes: Material **Steel** External diameter { Plain **2 3/4"** Stay **2 3/4"** Thickness { **9 w.e.** **1/4"** No. of threads per inch **9**
Pitch of tubes **3 7/8" x 3 7/8"** Working pressure by Rules **215 lbs** Manhole compensation: Size of open shell plate **17" x 13"** Section of compensating ring **9 1/2" x 1 7/8"** No. of rivets and diameter of rivet holes **30 1 9/16"**
Outer row rivet pitch at ends **10 3/8"** Depth of flange if manhole flanged **—** Steam Dome: Material **—**
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 diam stays **—** Inner radius of crown **—** Working pressure by Rules **—**
How connected to shell **—** Size of doubling plate under dome **—** Diameter of rivet holes and 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 of 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 of Rules **—** Pressure to which the safety valves are adjusted **—** Hydraulic test pressure tubes **—** castings **—** and after assembly in place **—** Are drain cocks or valves to free the superheater from water where necessary **—**
Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with **—**

The foregoing is a correct description,

Manufact

Dates of Survey { During progress of work in shops - - - Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)
while building { During erection on board vessel - - - **19, 21, 25, 31-10-33 & 23-11-33** Total No. of visits **5**

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) **These Boilers have been constructed at Newcastle under special survey and fitted on board at Monfalcone. The safety valves were adjusted to blow at 205 lbs. The steam oil fuel burning arrangement has been fitted in accordance with the approved plan and the requirements of Sect. 20 of the Rules have been satisfactorily carried out. The Semi Automatic - High Low Flame Control System has been added and the arrangement has been completed in accordance with the Secretary letter of 25th May 1932 to Messrs Todd Oil Burner Ltd.**

Please see also Newcastle Report No 88731

Survey Fee **Medon Machinery Report** When applied for, **192**
Travelling Expenses (if any) **£** When received, **192**

R. H. Harrison
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute **TUE. 2 JAN 1934**

Assigned



© 2021

Lloyd's Register Foundation