

REPORT ON BOILERS.

No. 2760

-9 NOV 1920

Received at London Office

Date of writing Report 30th Oct 1926 When handed in at Local Office 19 Port of Dunkirk

No. in Survey held at Dunkirk Date, First Survey 27th April 1915 Last Survey 14th September 1926

Reg. Book. on the M/V. "THEOPHILE GAUTIER" (Number of Visits 7) Gross 8705.7 Tons Net 4688.43

Built at Dunkirk By whom built "Chantiers de France" Yard No. 132 When built 1926
Cie. de Constructions Mecaniques
 Engines made at St. Denis (Seine) By whom made Procede Sulzer Engine No. 5417-5422 Port When made 1925
15423-5428 Starboard.

Boilers made at Amman By whom made Cochran & Co Amman Ltd. Boiler No. 9441 When made 1924

Owners Servies Contractuels des Messageries Maritimes Port belonging to Marseilles

VERTICAL DONKEY BOILER.

Made at Amman By whom made Cochran & Co Amman Ltd Boiler No. 9441 When made 1924 Where fixed Top of Engine Room

Manufacturers of Steel ✓

Total Heating Surface of Boiler 220 sq ft Is forced draught fitted No Coal or Oil fired Oil fired

No. and Description of Boilers One Cochran Type Working pressure 100 lbs.

Tested by hydraulic pressure to ✓ Date of test ✓ No. of Certificate 16634

Area of Firegrate in each Boiler 12.5 sq ft No. and Description of safety valves to each boiler Two 2" Spring loaded

Area of each set of valves per boiler per rule 2.87 sq ft as fitted 6.28 sq ft Pressure to which they are adjusted 100 lbs per sq in Are they fitted with easing gear Yes

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

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

Is the base of the boiler insulated Yes Largest internal dia. of boiler 5'-0" Height 13'-0"

Shell plates: Material ✓ Tensile strength ✓ Thickness ✓

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

Dia. of rivet holes in { circ. seams ✓ long. seams ✓ } Pitch of rivets { ✓ } Percentage of strength of circ. seams { plate ✓ rivets ✓ } of Longitudinal joint { plate ✓ rivets ✓ combined ✓ }

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 ✓ Tensile strength ✓

Thickness ✓ External diameter { top ✓ bottom ✓ } Length as per rule ✓ Working pressure by rules ✓

Arch 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 ✓ 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 ✓ back ✓ } Tensile strength { ✓ } Thickness { ✓ } Mean pitch of stay tubes in nests ✓

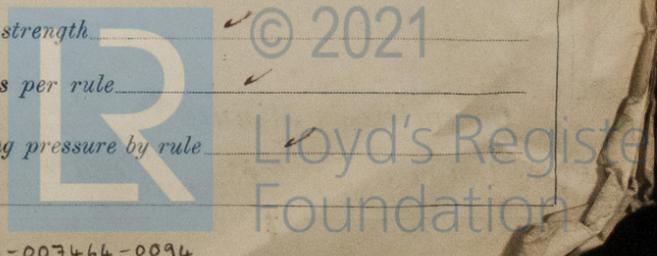
Comprising shell, Dia. as per rule { front ✓ back ✓ } Pitch in outer vertical rows { ✓ } Dia. of tube holes FRONT { stay ✓ plain ✓ } BACK { stay ✓ plain ✓ }

Does each alternate tube in outer vertical rows a stay tube ✓ Working pressure by rules { front ✓ back ✓ }

Boilers to combustion chamber tops: Material ✓ Tensile strength ✓

Width and thickness of girder at centre ✓ Length as per rule ✓

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



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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 _____

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

Tubes: Material _____ External diameter { plain _____
or _____
stay _____

No. of threads per inch _____ Pitch of tubes _____ Working pressure by rules _____ Thickness { _____

Manhole Compensation: Size of opening in shell plate _____ Section of compensating ring _____ No. of rivets and diam _____

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 23 inclusive for boilers been complied with _____

The foregoing is a correct description, _____

Dates of Survey while building { During progress of work in shops - - ✓
During erection on board vessel - - }

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

1925 April 27, 1926 Jan. 19, April 17, June 23, July 22, 30, Sept 14. Total No. of visits 7

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) Please see Glasgow Rpt. 44095 attached

The boiler of this vessel has been satisfactorily fitted on board, Examined under a hydraulic pressure of 150 lbs per sq. inch and found in good order. The feed pump and Injector Examined under working conditions. Good. The Safety Valve adjusted, ^{under} Steam to 100 lbs. per square inch. Satisfactory.

The washers are P = 7.8%, S = 6.4%.

The boiler is in good and safe working condition and Eligible in opinion to have the notation of D.B. 100 lbs. 9, 26

The approved boiler tracing is forwarded herewith.

Survey Fee _____ When applied for, _____ 19 _____

Travelling Expenses (if any) £ _____ : _____ When received, _____ 19 _____

John Bright
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute _____ TUES. 4 JAN 1927

Assigned _____ See Rpt attached

