

REPORT ON BOILERS.

No. 16524

Received at London Office 20 JUN 1927

Writing Report 10.6.1927 When handed in at Local Office 1927 Port of Rotterdam

Survey held at Rotterdam Date, First Survey 30.7.25 Last Survey 14.10.1926

on the Donkey boiler M.V. "GOLDMOUTH" (Number of Visits 2) Tons {Gross Net

Built at Rotterdam By whom built My Tjenwood Yard No. 303 When built 1925

Made at Amsterdam By whom made Werkspoor Engine No. When made 1927

Made at Rotterdam By whom made My Tjenwood Boiler No. 1519 When made 1925

Horse Power 1200 Owners Anglo Saxon Petroleum Co Port belonging to London

TITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Dawid Colville & Sons Ltd (Letter for Record S)

Heating Surface of Boilers 2452 sq ft Is forced draught fitted Yes Coal or Oil fired Oil

Description of Boilers 2 Multifibular donkey boiler Working Pressure 180 lbs

by hydraulic pressure to 320 lbs Date of test 14.10.26 No. of Certificate 848 Can each boiler be worked separately Yes

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

of each set of valves per boiler {per Rule as fitted 6038 m² Pressure to which they are adjusted 180 lbs Are they fitted with easing gear Yes

of donkey boilers, state whether steam from main boilers can enter the donkey boiler No main

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

Distance between shell of boiler and tank top plating Is the bottom of the boiler insulated

Internal dia. of boilers 3200 Length 3250 Shell plates: Material S.M. Steel Tensile strength 46-52 tons

Are the shell plates welded or flanged No Description of riveting: circ. seams {end lap 2x riv inter. Pitch of rivets {81 melle 170 melle

Seams Double butt strap 3x riv Diameter of rivet holes in {circ. seams 25 melle long. seams 25 melle

Percentage of strength of circ. end seams {plate 69.2% rivets 45% Percentage of strength of circ. intermediate seam {plate 85.3% rivets 90.2% combined 88.2%

Working pressure of shell by Rules 13.05 kg

Seams of butt straps {outer 14 melle inner 20 melle No. and Description of Furnaces in each Boiler 2 Monsons patent

Material S.M. Steel Tensile strength 41-47 kg Smallest outside diameter 874 melle

Thickness of plates {crown 12 melle bottom 12 melle Description of longitudinal joint Welded

Working pressure of furnace by Rules 14.6 kg

Stays in steam space: Material S.M. Steel Tensile strength 41-47 kg Thickness 25 melle Pitch of stays 400x400

Working pressure by Rules 12.6 kg

Stays: Material {front S.M. Steel back S.M. Steel Tensile strength {41-47 kg Thickness {25 melle 20 melle

Pitch of stay tubes in nests 200x300 melle Pitch across wide water spaces 360 melle Working pressure {front 12.6 kg back

Stays to combustion chamber tops: Material S.M. Steel Tensile strength 44-50 kg Depth and thickness of girder

160x2x18 melle Length as per Rule 650 melle Distance apart 200 melle No. and pitch of stays

2x 210 melle Working pressure by Rules 16.7 kg Combustion chamber plates: Material S.M. Steel

Strength 41-47 kg Thickness: Sides 18 melle Back 18 melle Top 18 melle Bottom 18 melle

Stays to ditto: Sides 110x189 Back 113x189 Top 210x200 Are stays fitted with nuts or riveted over top. Solid headed riveted over

Working pressure by Rules 13.6 kg Front plate at bottom: Material S.M. Steel Tensile strength 41-47 kg

Thickness 25 melle Lower back plate: Material S.M. Steel Tensile strength 41-47 kg Thickness 25 melle

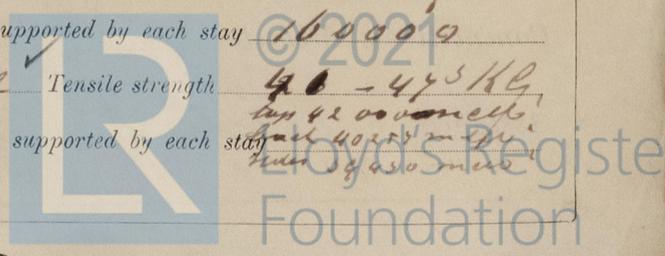
Stays at wide water space 330 melle Are stays fitted with nuts or riveted over Fitted with nuts

Working pressure 27.7 kg Main stays: Material S.M. Steel Tensile strength 44-50 kg

At body of stay, or Over threads 60 melle No. of threads per inch 9 Area supported by each stay 160000

Working pressure by Rules 16.6 kg Screw stays: Material S.M. Steel Tensile strength 41-47 kg

At turned off part, or Over threads 30 melle No. of threads per inch 9 Area supported by each stay 42000



Working pressure by Rules *14.05/14* Are the stays drilled at the outer ends *Yes* Margin stays: Diameter { At turned off part, *58 mm* or Over threads }
 No. of threads per inch *9* Area supported by each stay *396 mm* Working pressure by Rules *14.4/14*
 Tubes: Material *Iron* External diameter { Plain *2 3/4"* Stay *2 3/4"* Thickness *N° 4 L 59* No. of threads per inch *9*
 Pitch of tubes *100 mm* Working pressure by Rules *20.0/14* Manhole compensation: Size of opening in shell plate *410 x 510 mm* Section of compensating ring *105 x 20 mm* No. of rivets and diameter of rivet holes *34 à 30 mm*
 Outer row rivet pitch at ends *220 mm* Depth of flange if *manhole* flanged *85 mm* Steam Dome: Material *Iron*
 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 diameter of stays *✓*
 How connected to shell *✓* Inner radius of crown *✓* Working pressure by Rules *✓*
 Size of doubling plate under dome *✓* Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell *✓*

Type of Superheater *✓* 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 off and 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 as per Rules *✓*
 Pressure to which the safety valves are adjusted *✓* Hydraulic test pressure *✓*
 tubes *✓*, castings *✓* and after assembly in place *✓* Are drain cocks or valves fitted to free the superheater from water where necessary *✓*

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

The foregoing is a correct description,
 Maatschappij voor Scheeps- en Werktuigbouw
 "FIJENOORD" Manufacturer

Dates of Survey { During progress of work in shops - - } *1925-29 1924 24/9 27/8 20/11* Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) *24.4.25*
 { During erection on board vessel - - - } *18 14/10* Total No. of visits *9*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *These boilers have been made under special survey in accordance with the approved plans, Society's Rules and Secretary's letters, materials tested as required and workmanship good*

Survey Fee £ *196.20* When applied for, *16/6* 1927
 Travelling Expenses (if any) £ *16.00* When received, *29-7* 1927

J. G. Oetoo
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute *FRI. 24 JUN 1927*
 Assigned *See Report attached*

