

REPORT ON BOILERS.

No. 19920

6 MAR 1935

Received at London Office

Date of writing Report 8.1.1935 When handed in at Local Office 2nd MARCH 1935 Port of Liverpool

No. in Survey held at Liverpool Date, First Survey 28th DECEMBER 1933 Last Survey 1st MARCH 1935

Reg. Book. M/S "Amastria" (Number of Visits) Tons { Gross 8030.44 Net 4444.23

Master P. Leongow Built at Liverpool By whom built L. Rigou L^a Yard No. 870 When built 1935

Engines made at Liverpool By whom made John L. Rucaid C^{ya} Engine No. 1174 When made 1935

Boilers made at ditto By whom made ditto Boiler No. 1174 When made 1935

Nominal Horse Power Owners Anglo-Saxon Petroleum C^{ya} Port belonging to LONDON

MULTITUBULAR BOILERS DONKEY.

Manufacturers of Steel Swedish S. S. C^{ya} of Bolwill L^a (Letter for Record S)

Total Heating Surface of Boilers 2502 # Is forced draught fitted yes Coal or Oil fired oil

No. and Description of Boilers one Single Ended Working Pressure 180

Tested by hydraulic pressure to 320 Date of test 29.11.34 No. of Certificate 2032 Can each boiler be worked separately

Area of Firegrate in each Boiler 6.5 No. and Description of safety valves to each boiler Double Spring

Area of each set of valves per boiler { per Rule 16" as fitted 16.58 Pressure to which they are adjusted 185 Are they fitted with easing gear yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Smallest distance between boilers or uptakes and bunkers or woodwork 2.6 Is oil fuel carried in the double bottom under boilers no

Smallest distance between shell of boiler and tank top plating 17.0 Is the bottom of the boiler insulated yes

Largest internal dia. of boilers 14' 6" Length 11' 6" Shell plates: Material S Tensile strength 29.33

Thickness 15/32" Are the shell plates welded or flanged Description of riveting: circ. seams { end DE inter.

long. seams TR + DBS Diameter of rivet holes in { circ. seams 7/32" long. seams 15/32" Pitch of rivets { 3:5:27 77/8"

Percentage of strength of circ. end seams { plate 65.4 rivets 45.3 Percentage of strength of circ. intermediate seam { plate rivets

Percentage of strength of longitudinal joint { plate 85.32 rivets 85.45 combined 84.49 Working pressure of shell by Rules 180

Thickness of butt straps { outer 7/8" inner 1" No. and Description of Furnaces in each Boiler 3 Brightons

Material S Tensile strength 26-30 Smallest outside diameter 3'-4 1/8"

Length of plain part { top bottom Thickness of plates { crown 9 1/16" bottom Description of longitudinal joint weld

Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 189

End plates in steam space: Material S Tensile strength 26-30 Thickness 19/32" Pitch of stays 21' x 19 1/2"

How are stays secured DN - Washers Working pressure by Rules 191

Tube plates: Material { front Steel back Tensile strength { 26-30 Thickness { 15/16" 11/16"

Mean pitch of stay tubes in nests 9.375" Pitch across wide water spaces 13 1/2" Working pressure { front 225 back 191

Girders to combustion chamber tops: Material S Tensile strength 29-33 Depth and thickness of girder

at centre 8 1/2 x 3/4 (2) Length as per Rule 2'-4 1/8" Distance apart 9" No. and pitch of stays

in each 3 at 4 1/2" Working pressure by Rules 193 Combustion chamber plates: Material S

Tensile strength 26-30 Thickness: Sides 11/16" Back 11/16" Top 11/16" Bottom 3/4"

Pitch of stays to ditto: Sides 4 1/2 x 7 7/16" Back 4 7/16 x 7 1/2" Top 9 x 4 1/2" Are stays fitted with nuts or riveted over Riveted

Working pressure by Rules 184 Front plate at bottom: Material S Tensile strength 26-30

Thickness 15/16" Lower back plate: Material S Tensile strength 26-30 Thickness 18/16"

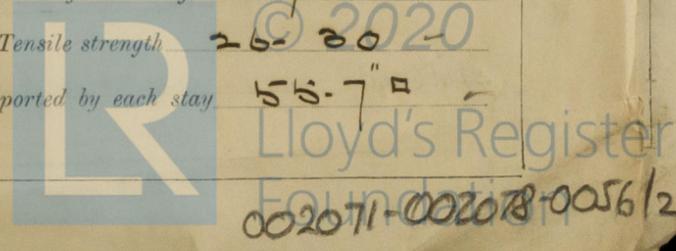
Pitch of stays at wide water space 14 Are stays fitted with nuts or riveted over Marginal Stays Riveted other riveted

Working Pressure 189 Main stays: Material S Tensile strength 28-32

Diameter { At body of stay, 3 1/2" or 3" in plan No. of threads per inch 6 Area supported by each stay 409.5 #

Working pressure by Rules 191 Screw stays: Material S Tensile strength 26-30

Diameter { At turned off part, 1 3/8" or No. of threads per inch 9 Area supported by each stay 55.7 #



Working pressure by Rules 184 Are the stays drilled at the outer ends no Margin stays: Diameter 1 5/8"
 No. of threads per inch 9 Area supported by each stay 80.3" Working pressure by Rules 189
 Tubes: Material Iron External diameter 2 1/2" Thickness 9/32" No. of threads per inch 9
 Pitch of tubes 33/4 + 33/4" Working pressure by Rules 210 Manhole compensation: Size of opening in
 shell plate 16 1/2 + 20 1/2" Section of compensating ring 2-11 + 2-7 + 19/32" No. of rivets and diameter of rivet holes 38 at 1 5/16"
 Outer row rivet pitch at ends 9 1/4" Depth of flange if manhole flanged 3 1/4" 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
 Internal diameter _____ Working pressure by Rules _____ Thickness of crown Rivets
 stays _____ Inner radius of crown _____ Working pressure by Rules _____ No. and diameter of
 How connected to shell _____ 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
 Number of elements _____ Material of tubes _____ Steel castings _____
 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 22 inclusive for boilers been complied with _____

The foregoing is a correct description,
 For JOHN G. KINGAID & CO. LIMITED. W. G. Cairns DIRECTOR, Manufacturer.

Dates of Survey During progress of work in shops - - Are the approved plans of boiler forwarded forwarded herewith yes
while building During erection on board vessel - - - (If not state date of approval.)
 SEE MACHINERY REPORT. Total No. of visits _____

Is this Boiler a duplicate of a previous case no If so, state Vessel's name and Report No. _____

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) Plus Boiler has been built under special survey in accordance with the approved plans & the workmanship & material are of good quality, & is now securely fitted on board. Plus Report accompany that of the Machinery.

Survey Fee Charged on Machinery Report When applied for, _____ 19 _____
 Travelling Expenses (if any) _____ When received, _____ 19 _____

W. G. Gordon-Mitchell
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 5-MAR 1935

Assigned See accompanying mach^y report.



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