

REPORT ON BOILERS.

No. 286

Received at London Office 31 DEC 1929

to of writing Report

192

When handed in at Local Office

28-12-1929

Port of

Roouen

No. in Survey held at

Le Trait

Date, First Survey 5 february

Last Survey 12 December 1929

Book.

(Number of Visits 15)

Gross 8003.89

on the Lin SC Motor tanker "Mirya"

Tons Net 4504.76

ster

Built at Le Trait

By whom built Warms & Co. Ateliers et Chantiers de la Seine Maritime

Yard No. 53

When built 1929

ines made at Amsterdam

By whom made Workspoor

Engine No. 2

When made 1929

lers made at Le Trait

By whom made Warms & Co. Ateliers et Chantiers de la Seine Maritime

Boiler No. 123

When made 1929

ninal Horse Power 2x407 = 814

Owners Anglo Saxon Petroleum Co. London

Port belonging to S. Gravenhage

Managers Petroleum Maatschappij Laborona The Hague

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Schneider & Co

(Letter for Record L)

and Heating Surface of Boilers

112.35 each

Is forced draught fitted

yes

Coal or Oil fired

oil

and Description of Boilers

2 Multitubular donkey boiler

Working Pressure

12.65 (180 lbs)

ed by hydraulic pressure to

22.475

Date of test

5/4/29

No. of Certificate

123 & 124

Can each boiler be worked separately

yes

of Firegrate in each Boiler

<

No. and Description of safety valves to each boiler

2 sprung

of each set of valves per boiler

per Rule 6003 7/8

Pressure to which they are adjusted

180

Are they fitted with easing gear

yes

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

no main boiler

test distance between boilers or uptakes and bunkers or woodwork

no wood no bunkers

Is oil fuel carried in the double bottom under boilers

no tank under boiler

test distance between shell of boiler and tank top plating

2

Is the bottom of the boiler insulated

yes

est internal dia. of boilers

3260

Length

3150

Shell plates: Material

Steel

Tensile strength

64-55

ness 23 mm

Are the shell plates welded or flanged

Neither

Description of riveting: circ. seams

end D.R. lap

seams double butt strap

Diameter of rivet holes in

circ. seams

26

Pitch of rivets

86

long. seams

26

128

centage of strength of circ. end seams

plate

71

Percentage of strength of circ. intermediate seam

plate

2

centage of strength of longitudinal joint

plate

85.6

Working pressure of shell by Rules

73.34

centage of strength of longitudinal joint

plate

85.6

combined

92

combined

89.4

ness of butt straps

outer

18

No. and Description of Furnaces in each Boiler

2 Corrugated (Marsson)

ial M steel

Tensile strength

41-47

Smallest outside diameter

862

of plain part

top

243

Thickness of plates

bottom

42

Description of longitudinal joint

welded

sions of stiffening rings on furnace or c.c. bottom

<

Working pressure of furnace by Rules

14.03

ates in steam space: Material

Steel

Tensile strength

41-47

Thickness

22

Pitch of stays

380 x 360

re stays secured

screwed in the plate washers & nuts outside & inside

Working pressure by Rules

13.2

plates: Material

front

steel

Tensile strength

41-47

Thickness

22

pitch of stay tubes in nests

180 x 180

Pitch across wide water spaces

360 x 180

Working pressure

front

13.2

s to combustion chamber tops: Material

steel

Tensile strength

41-47

Depth and thickness of girder

re

210

Length as per Rule

750

Distance apart

190

No. and pitch of stays

9-200

Working pressure by Rules

14.3

Combustion chamber plates: Material

steel

strength

41-47

Thickness: Sides

17.5

Back

16

Top

17.5

Bottom

17.5

of stays to ditto: Sides

186 x 200

Back

180 x 180

Top

190 x 200

Are stays fitted with nuts or riveted over

Margin stays nuts

g pressure by Rules

14.6

Front plate at bottom: Material

steel

Tensile strength

41-47

ss

22

Lower back plate: Material

steel

Tensile strength

41-47

Thickness

22

of stays at wide water space

360 x 180

Are stays fitted with nuts or riveted over

Doubling plate nuts both side

Pressure

13.1

Main stays: Material

steel

Tensile strength

41-47

At body of stay,

64 x 36

No. of threads per inch

9

Area supported by each stay

152.800 mm²

Over threads

70 mm

Screw stays: Material

steel

Tensile strength

41-47

g pressure by Rules

17.5

No. of threads per inch

9

Area supported by each stay

32.400 mm²

At turned off part,

38.1

No. of threads per inch

9

Area supported by each stay

32.400 mm²

Over threads

38.1

No. of threads per inch

9

Area supported by each stay

32.400 mm²

Working pressure by Rules 17.5 Are the stays drilled at the outer ends yes Margin stays: Diameter { At turned off part, 4.6
Over threads }
No. of threads per inch 9 Area supported by each stay 200 x 200 Working pressure by Rules 17.2
Tubes: Material Iron External diameter { Plain 63.5 Thickness { 3.5 No. of threads per inch 9
Stay 63.5 }
Pitch of tubes 190 x 190 Working pressure by Rules 12.6 Manhole compensation: Size of opening in
shell plate 405 x 305 Section of compensating ring 785 x 885 No. of rivets and diameter of rivet holes 20 25 mm
Outer row rivet pitch at ends 180 Depth of flange if manhole flanged 25 mm Steam Dome: Material Iron
Tensile strength Iron Thickness of shell Iron 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 Inner radius of crown Working pressure by Rules
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
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,

P. Pon Wong & Co
Le Sous Directeur

Manufacturer

Dates of Survey { During progress of work in shops - 15 Feb. 19 March 5 April 2 May
while building { During erection on board vessel - 27 June 10 July 16 August 15 Sept 2 Oct 5-15-25 Nov - 12 Dec
Are the approved plans of boiler and superheater forwarded herewith yes
(If not state date of approval.)
Total No. of visits 15

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

The boilers have been surveyed during progress of work in shops the material used is of good quality and in accordance with the rule requirements. The workmanship is good. The safety valves have been adjusted under 180 lbs steam pressure and the thickness of washers noted as follow

Port boiler { One valve 8 mm
Left 8.5

Starb. boiler { One valve 9
Aft 9

This boiler meet in my opinion the favourable consideration of the Committee for to be classed and the notation of DB 12.29 inserted in the Register Book.

Survey Fee ... 750 1929

Travelling Expenses (if any) £ Motor Report :

When applied for, 28-12-1929

When received, 23-1-1930

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE 7 JAN 1930

Assigned

See other Rpt
Ran 2 E 886



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Foundation