

# REPORT ON BOILERS.

No. 92373

Received at London Office 24 FEB 1928

Date of writing Report 24 Feb 23<sup>rd</sup> 1928 When handed in at Local Office 24 FEB 1928 Port of London

No. in Survey held at Kitchin Date, First Survey 9<sup>th</sup> DEC 1927 Last Survey Feb 22<sup>nd</sup> 1928  
Reg. Book MY. KOTA GEDE (Number of Visits 3)

on the Spencer Hopwood No. 24 Standard for M.V. Kottacintat Snework Tons { Gross  
Net

built at Rotterdam By whom built My Tyenwood Yard No. 309 When built 1928

engines made at Rotterdam By whom made My Tyenwood Engine No. 549 When made 1928

boilers made at Rotterdam By whom made My Tyenwood Boiler No. 7197 When made 1928

owners Rotterdamische Lloyd Port belonging to Rotterdam

## VERTICAL DONKEY BOILER.

Made at Kitchin By whom made Messrs. Spencer Hopwood Boiler No. 7197 When made 1928 Where fixed In engine room

Manufacturers of Steel Messrs. Stewart & Lloyd

Total Heating Surface of Boiler 464 sq ft Is forced draught fitted no Coal or Oil fired oil

Material and Description of Boilers Spencer-Hopwood No. 24 Standard Working pressure 100 lbs

Tested by hydraulic pressure to 200 lbs per sq in Date of test 22-2-28 No. of Certificate 1325

Area of Firegrate in each Boiler 23 3/4 sq ft No. and Description of safety valves to each boiler 2 Spring loaded

Area of each set of valves per boiler { per rule 9.80 sq in as fitted 9.80 sq in Pressure to which they are adjusted 100 lbs Are they fitted with easing gear yes

State whether steam from main boilers can enter the donkey boiler no Smallest distance between boiler or uptake and bunkers 6 ft

Is oil fuel carried in the double bottom under boiler no Smallest distance between base of boiler and tank top plating 14 ft 8 in (14' 8")

Is the base of the boiler insulated no Largest internal dia. of boiler 6 ft Height 14 ft 8 in (14' 8")

Shell plates: Material Steel - Stewart & Lloyd Tensile strength 28-32 Thickness 15/32

Are the shell plates welded or flanged no Description of riveting: circ. seams { Int. S.R. long seams DR head strap

No. of rivet holes in { circ. seams 7/8 Pitch of rivets { 25.03 in Percentage of strength of circ. seams { plate 59.6 x 70.9 of Longitudinal joint { plate 21 rivets 120 combined 120

Working pressure of shell by rules 120 Thickness of butt straps { outer 3/4 inner 1/2

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat Flat Material Steel

Tensile strength 28-32 Thickness 3/4 Radius no Working pressure by rules 100

Description of Furnace: Plain, spherical, or dished crown Plain Material Steel Tensile strength 26-30

Thickness 3/4 External diameter { top 4' 10" - 4' 3" Length as per rule 5' 10" Working pressure by rules 129

Attachment of support stays circumferentially no and vertically no Are stays fitted with nuts or riveted over no

Diameter of stays over thread no Radius of spherical or dished furnace crown no Working pressure by rule no

Thickness of Ogee Ring no Diameter as per rule { D Working pressure by rule no

Combustion Chamber: Material no Tensile strength no Thickness of top plate no

Radius if dished no Working pressure by rule no Thickness of back plate no Diameter if circular no

Length as per rule no Pitch of stays no Are stays fitted with nuts or riveted over no

Diameter of stays over thread no Working pressure of back plate by rules no

Tube Plates: Material { front Steel Tensile strength { 26-30 Thickness { 3/4 Mean pitch of stay tubes in nests 10 1/16

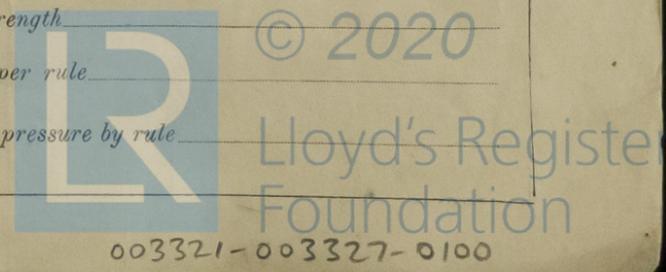
comprising shell, Dia. as per rule { front no Pitch in outer vertical rows { no Dia. of tube holes FRONT { stay no BACK { stay no plain no plain no

each alternate tube in outer vertical rows a stay tube no Working pressure by rules { front no back no

Orders to combustion chamber tops: Material no Tensile strength no

Depth and thickness of girder at centre no Length as per rule no

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



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 \_\_\_\_\_ No. of threads per inch \_\_\_\_\_  
 Area supported by each stay \_\_\_\_\_ Working pressure by rules \_\_\_\_\_ Are the stays drilled at the outer ends \_\_\_\_\_

Tubes: Material Steel ✓ External diameter { plain 2 1/4 to 2 1/2 ✓ Thickness { 11/16 to 1/4 ✓  
 No. of threads per inch 11 ✓ Pitch of tubes 3 1/8 x 3 ✓ Working pressure by rules 100 ✓

Manhole Compensation: Size of opening in shell plate 16 x 12 ✓ Section of compensating ring 2 1/2 dia. 9/16 ✓ No. of rivets and diam. \_\_\_\_\_  
 of rivet holes 24 - 7/8 ✓ Outer row rivet pitch at ends 5 1/2 ✓ Depth of flange if manhole flanged \_\_\_\_\_

Uptake: External diameter 27 ✓ Thickness of uptake plate 3/4 ✓

Cross Tubes: No. \_\_\_\_\_ External diameters { \_\_\_\_\_ Thickness of plates \_\_\_\_\_

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

**SPENCER-HOPWOOD, LTD.**

The foregoing is a correct description,

*Bradley*

**WORKS MANAGER,**

Dates of Survey { During progress of work in shops - - } 1927: DEC 9 1928: JAN 25 FEB 22 Is the approved plan of boiler forwarded herewith (If not state date of approval.) Yes ✓  
 while building { During erection on board vessel - - } \_\_\_\_\_ Total No. of visits 3 (In Shops)

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

*This boiler has been built under Special Survey in accordance with the plan & the Society's Rules.*

*The steel used in its construction has been tested according to the Rules.*

*The workmanship is good.*

*Upon completion the boiler was tested by hydraulic pressure to 200 lbs and showed no signs of weakness or defect.*

*The boiler is stamped.*

*No. 1325*

*Hydro test*

*200 lbs*

*W.P. 100 lbs*

*22.2.28 H.P.C*

*This boiler has been properly fitted, safety valves adjusted under steam. Thickness of washers 11 mill 12 mill.*

*G. G. Johnson*

Survey Fee ... .. £ 4 : 4 : } When applied for, 26 FEB 28  
 Travelling Expenses (if any) £ 2 : 11 : 0 } When received, 6. 6. 19 28 H.W.

*H. J. Cornish*

Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation

Committee's Minute

TUE 16 OCT 1928

Assigned

*See Rot. 17819*