

REPORT ON BOILERS.

No. 94395

Received at London Office

16 OCT 1929 27 NOV 1930

Date of writing Report 16 OCT 1929 When handed in at Local Office 16 OCT 1929 Port of London

No. in Survey held at Hitchin Date, First Survey 6th SEPTEMBER Last Survey Oct 11th 1929
Reg. Book
on the M.V. "Kola Ageng"
(Number of Visits 4) Gross 7331 Tons Net 4601Built at Rotterdam By whom built Messrs Maats & Woodward Yard No. 317 When built 1929
Engines made at Rotterdam By whom made " " Engine No. When made
Boilers made at " By whom made " Boiler No. When made
Owners Rotterdammer Lloyd Port belonging to Rotterdam

VERTICAL DONKEY BOILER.

Made at Hitchin By whom made Spencer-Hopwood Boiler No. 9880 When made 1929 Where fixed Engine room
Manufacturers of Steel Stewart & Lloyds.Heating Surface of Boiler 464 ft² Is forced draught fitted no Coal or Oil fired oil

Description of Boilers One Spencer-Hopwood Patent Working pressure 100 lb.

Tested by hydraulic pressure to 200 lb./sq. in. Date of test Oct 11th 1929 No. of Certificate 1346

No. of Firegrate in each Boiler 1 No. and Description of safety valves to each boiler 2 spring loaded

No. of each set of valves per boiler 1 per rule 9.8 lb. Pressure to which they are adjusted 100 lb. Are they fitted with easing gear Yes

Whether steam from main boilers can enter the donkey boiler Yes Smallest distance between boiler or uptake and bunkers

Woodwork Yes 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 6'-0" Height 11'-7"

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

The shell plates welded or flanged Yes Description of riveting: circ. seams end SR Lap long seams Hole Prod. Trap

No. of rivet holes in { circ. seams 7/8 Pitch of rivets 2 3/32 Percentage of strength of circ. seams { plate 54% of Longitudinal joint { plate 70.5% rivets 120 combined

Working pressure of shell by rules 126 Thickness of butt straps { outer 1/2 inner 1/2

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

Tensile strength 26-30 Thickness 3/4 Radius Working pressure by rules 100

Description of Furnace: Plain, spherical, or dished crown Material Tensile strength

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

No. 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 Working pressure by rule

Combustion Chamber: Material Steel Tensile strength 26-30 Thickness of top plate 3/4

Radius if dished Working pressure by rule 100 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 Steel Tensile strength { 26-30 Thickness { 3/4 Mean pitch of stay tubes in nests 20 stay tubes

If comprising shell, Dia. as per rule { front Pitch in outer vertical rows { Dia. of tube holes FRONT { stay BACK { stay

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

Girders to combustion chamber tops: Material Tensile strength

Depth and thickness of girder at centre Length as per rule

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

003138-003146-0027

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Foundation

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 Solid Brown Steel External diameter { plain 2 1/4
stay 2 1/4 Thickness { 11 Swg.
1/4"

No. of threads per inch 11 Pitch of tubes 3 1/4 x 3 Working pressure by rules 100 lbs.

Manhole Compensation: Size of opening in shell plate 16 x 12 Section of compensating ring 2' 2" dia x 9/16 No. of rivets and diameter
of rivet holes 32 - 7/8 Outer row rivet pitch at ends 4 3/8 Depth of flange if manhole flanged _____

Uptake: External diameter 2' 3" 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,

J. Bradley Manufacturer.
WORKS MANAGER

Dates of Survey { During progress of 1929 SEP 6-13-20 Oct 11
work in shops - - }
while building { During erection on
board vessel - - }

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

Total No. of visits 4 (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 material has been tested by the Society's Laboratory.
The workmanship is good.
On completion the boiler was tested by hydraulic pressure to 200 lbs per sq. inch without showing any signs of weakness or defect.

The boiler is stamped: — No. 1346
Hydro test
200 lbs
W.P. 100 lbs
11-10-29. H.P.C.

Survey Fee ... £ 4 : 4 : When applied for, 18 OCT 1929

Travelling Expenses (if any) £ 1 - 0 - 4 When received, 18 OCT 1929

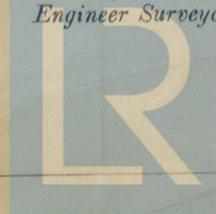
Committee's Minute

Assigned

TUE 4 NOV 1930

See F.E. Rpt

G. J. Ochoa H. P. Cornick
Engineer Surveyor to Lloyd's Register of Shipping.



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