

REPORT ON BOILERS.

Goth. No. 7779

No. 6739.

Received at London Office
Göteborg. 4 MAY 1929

18th Jan. 1930 18th Jan. 1930
of writing Report 3-5-1929 When handed in at Local Office 3-5-1929 Port of Manchester
54 Dec. 1929 7th Jan. 1930

No. in Survey held at Halifax. Date, First Survey 10th April, 1929 Last Survey 30th April 1929
(Number of Visits 2+2) Gross 4817
Tons Net 2475

on the Single Screw Motor vessel "VASA HOLM"

alt at Göteborg By whom built AB Götavarken Yard No. 486 When built 1930
gines made at Göteborg By whom made AB Götavarken Engine No. 860 When made 1930
ilers made at Halifax By whom made Lumby's Ltd. Boiler No. 3880 When made 1929
oners AB Götavarken AB Svenska Smide och Metallindustri Port belonging to Göteborg

VERTICAL DONKEY BOILER.

ade at Halifax By whom made Lumby's Ltd. Boiler No. 3880 When made 1929 Where fixed ☒
anufacturers of Steel Park Gate Iron & Steel Co. Ltd.

otal Heating Surface of Boiler 100 sq. ft. Is forced draught fitted ☒ Coal or Oil fired Oil
o. and Description of Boilers One Vertical Cross Tube Working pressure 85 lbs/sq. in.
ested by hydraulic pressure to 170 lbs/sq. in. Date of test 30th April, 1929 No. of Certificate 76

rea of Firegrate in each Boiler ☒ No. and Description of safety valves to each boiler One double spring loaded
Diam. of each set of valves per boiler { per rule... as fitted 2" Pressure to which they are adjusted 88 lbs/sq. in. Are they fitted with easing gear Yes
tate whether steam from main boilers can enter the donkey boiler No main boilers Smallest distance between boiler or uptake and bunkers
r woodwork ☒ Is oil fuel carried in the double bottom under boiler Yes Smallest distance between base of boiler and tank top plating
About 3 feet Is the base of the boiler insulated Yes Largest internal dia. of boiler 4'-0" Height 11'-0"
Shell plates: Material Steel Tensile strength 28-32 tons Thickness 3/8"
Are the shell plates welded or flanged No Description of riveting: circ. seams { end. Single long. seams Double
Dia. of rivet holes in { circ. seams { 13/16" Pitch of rivets { 2 1/8" Percentage of strength of circ. seams { plate 61.8 of Longitudinal joint { plate 70.4
 { long. seams { 16/16" { 2.6" { rivets 45.5 { rivets 69.48
 { combined...
Working pressure of shell by rules 139.7 lbs. Thickness of butt straps { outer... inner...
Shell Crown: Whether complete hemisphere, dished partial spherical, or flat Dished partial spherical Material Steel
Tensile strength 26-30 tons Thickness 1/2" Radius 4'-0" Working pressure by rules 121.9 lbs.
Description of Furnace: Plain, spherical, or dished crown Dished crown Material Steel Tensile strength 26-30 tons
Thickness 1/2" External diameter { top 3'-3" Length as per rule 5'-6" Working pressure by rules 89.5 lbs.
 { bottom 3'-6"
Pitch 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 3'-3 1/2" Working pressure by rule 104.4 lbs
Thickness of Ogee Ring ☒ Diameter as per rule { D... d... Working pressure by rule ☒
Combustion Chamber: Material ☒ Tensile strength ☒ Thickness of top plate ☒
Radius if dished ☒ Working pressure by rule ☒ 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... back... Tensile strength { front... back... Thickness { front... back... Mean pitch of stay tubes in nests ☒
If comprising shell, Dia. as per rule { front... back... Pitch in outer vertical rows { front... back... Dia. of tube holes FRONT { stay... plain... BACK { stay... plain...
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 ☒

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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 ✓ External diameter { plain ✓
stay ✓ Thickness { ✓
No. of threads per inch ✓ Pitch of tubes ✓ Working pressure by rules ✓

Manhole Compensation: Size of opening in shell plate 16" x 12" ✓ Section of compensating ring 5 1/2" x 1/2" No. of rivets and dia ✓
of rivet holes 40 - 13/16" Outer row rivet pitch at ends 3 1/2" Depth of flange if manhole flanged ✓

Uptake: External diameter 12" Thickness of uptake plate 1/2" ✓

Cross Tubes: No. 3 ✓ External diameters { 10" ✓ Thickness of plates 3/8" ✓

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

The foregoing is a correct description,

LUMBYS LIMITED,

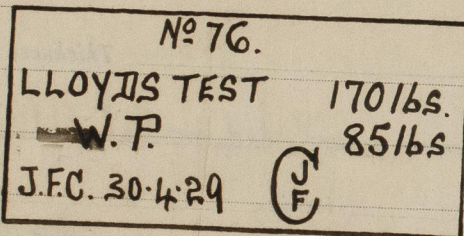
A. S. Naylor : DIRECTOR Manufact

Dates of Survey { During progress of work in shops - 1929. April 10th & 30th.
while building { During erection on board vessel - 1929: Dec 5th 1930: Jan 7

Is the approved plan of boiler forwarded herewith Yes.
(If not state date of approval.)
Total No. of visits 2, 2

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

This boiler has been built under special survey, to the approved plans and the materials tested in accordance with the rules of this Society. The materials and workmanship are good and the boiler was tested in my presence by hydraulic pressure to 170 lbs per square inch with satisfactory results; the working pressure not to exceed 85 lbs per square inch.
This boiler is eligible in my opinion, to be classed with this Society and is stamped for identification :-



This donkey boiler has been fitted on board this vessel under my inspection and to my satisfaction.

Survey Fee ... £ 4 : 4 : } When applied for, 3-5-1929.
Travelling Expenses (if any) £ 1 : 15 : } When received, 29-5-1929.
See ltr C/H. 29/5/29.

Committee's Minute
Assigned

FRI. 24 JAN 1930

See lot SE 7779

J. J. Campbell : Engineer Surveyor to Lloyd's Register of Shipping.



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