

REPORT ON BOILERS.

No. 10,002.

Received at London Office

14 SEP 1936

Writing Report 3rd Sept 1932 When handed in at Local Office

Port of Copenhagen

Survey held at Copenhagen & Odense Date, First Survey 22nd April Last Survey 27th August 1936
 on the Single Sc. Motor Trawler "LOOSDRECHT" (Number of Visits 22) Gross 9313.51 Tons Net 5591.95

Built at Odense By whom built L. Odense Staalskibsværkt No. 58 When built 1936
 Engine No. 2376 When made 1936
 By whom made Apt. Bunnister & Wain
 By whom made Apt. Bunnister & Wain 1896
 By whom made Skibsbyggeri Boiler No. 1897 When made 1936
 Owners Phs. van Oudenums
 Port belonging to Rotterdam.

MULTITUBULAR BOILERS - MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Plates: Colvilles, Furness, Lonsby Pingle, Rydell & Co. (Letter for Record -)
 Heating Surface of Boilers Oil fired 1615 sq. ft. Forced draught fitted yes
 Description of Boilers 2 off horizontal multitubular Working Pressure 180 lbs/sq. in.
 Tested by hydraulic pressure to 320 lbs/sq. in. Date of test 11.7.36 No. of Certificate 583-84 Can each boiler be worked separately yes
 of Firegrate in each Boiler - No. and Description of safety valves to each boiler 2 off 3 1/2" diam. direct spring loaded
 of each set of valves per boiler {per Rule 9270 lbs/sq. in. Pressure to which they are adjusted 180 lbs/sq. in. Are they fitted with easing gear yes
 as fitted 12450 lbs/sq. in.
 of donkey boilers, state whether steam from main boilers can enter the donkey boiler -
 Distance between boilers or uptakes and bunkers or woodwork 2 1/2 m Is oil fuel carried in the double bottom under boilers -
 Distance between shell of boiler and tank top plating boilers placed on a platform Is the bottom of the boiler insulated yes
 Internal dia. of boilers 3850 mm Length 3180 mm Shell plates: Material S. Ct. Steel Tensile strength 30.2 to 31.4 lbs/sq. in.
 Thickness 26 mm Are the shell plates welded or flanged no Description of riveting: circ. seams {end Double Zig-Zag
 inter. 88.24 mm
 Diameter of rivet holes in {circ. seams 29 mm Pitch of rivets {190 mm
 {long. seams 28 mm
 Percentage of strength of circ. end seams {plate 67
 {rivets 47 Percentage of strength of circ. intermediate seam {plate -
 {rivets -
 Percentage of strength of longitudinal joint {plate 85.3
 {rivets 95.5 Working pressure of shell by Rules 191 lbs/sq. in.
 {combined 89.6
 Thickness of butt straps {outer 26 mm
 {inner 26 mm No. and Description of Furnaces in each Boiler 2 off corrugated, Deighton section.
 Material Mild Steel Tensile strength 29.2 to 29.9 lbs/sq. in. Smallest outside diameter 940 mm
 Thickness of plates {crown 13 mm Description of longitudinal joint none
 {bottom -
 Positions of stiffening rings on furnace or c.e. bottom - Working pressure of furnace by Rules 200 lbs/sq. in.
 Plates in steam space: Material S. Ct. Steel Tensile strength 28.4 to 30.4 lbs/sq. in. Thickness 27 mm Pitch of stays 350 x 490 mm
 Are stays secured Screwed in both plates, nuts inside & outside Working pressure by Rules 183 lbs/sq. in.
 Plates: Material {front S. Ct. Steel Tensile strength 28.4 to 29.0 lbs/sq. in. Thickness 24 mm
 {back S. Ct. Steel Tensile strength 27.3 to 29.0 lbs/sq. in. Thickness 19 mm
 Pitch of stay tubes in nests 228 mm Pitch across wide water spaces 355 mm Working pressure {front 181 lbs/sq. in.
 {back 224 lbs/sq. in.
 Stays to combustion chamber tops: Material S. Ct. Steel Tensile strength 30.5 lbs/sq. in. Depth and thickness of girder
 160 mm x 19 mm x 2 Length as per Rule 672 mm Distance apart 225 mm No. and pitch of stays
 2 off - 224 mm Working pressure by Rules 181 lbs/sq. in. Combustion chamber plates: Material S. Ct. Steel
 Tensile strength 27 to 27.7 lbs/sq. in. Thickness: Sides 17 mm Back 16 mm Top 17 mm Bottom 19 mm
 riveted in end plates, nuts in
 of stays to ditto: Sides 240 x 215 mm Back 204 x 188 mm Top 224 x 225 mm Are stays fitted with nuts or riveted over comb. chamber tops
 Working pressure by Rules 195 lbs/sq. in. Front plate at bottom: Material S. Ct. Steel Tensile strength 28.4 to 29.0 lbs/sq. in.
 Thickness 24 mm Lower back plate: Material S. Ct. Steel Tensile strength 28.4 to 29.0 lbs/sq. in. Thickness 24 mm
 of stays at wide water space D = 492 Are stays fitted with nuts or riveted over nuts inside & outside
 Working Pressure 228 lbs/sq. in. Main stays: Material S. Ct. Steel Tensile strength 29.3 lbs/sq. in.
 At body of stay, TOP 2 3/4" BOTTOM 2 1/2"
 Over threads 3" - 2 3/4" 2 3/4" - 2 1/2" No. of threads per inch 11 Area supported by each stay 172000 mm²
 Working pressure by Rules 222 lbs/sq. in. Screw stays: Material S. Ct. Steel Tensile strength 28.4 to 30.1 lbs/sq. in.
 At turned off part, 1 1/2" No. of threads per inch 11 Area supported by each stay 38352 mm²
 Over threads

Found

Single L. Locomotives "LOOSDRECHT"

driven by a 1-cyl. steam engine.

The dynamos, which are not arranged to run in parallel, supply current of 110 V. for the following purposes:

2 off 3.5 HP shunt wound electric motors for oil purifiers.

1 " 8 " series " " " engine timing gear.

1 " 0.2 " " " " fan in gallery.

1 " 4 " shunt " " " timing table.

1 " 2 kts. comp. " " " wireless telegraph

and the electric light installations.

The cooling water pump (210 mm dia x 225 mm st., duplex, double acting, 142 t/h), the lubricating oil pump (210 mm dia x 225 mm st., duplex, double acting, 142 t/h) and the bilge and sanitary pumps (130 mm dia. x 165 mm st. simplex, double acting, 20 t/h.) for the work at sea are all driven by the main engine through chain drive from the intermediate shaft.

Further a "stand by" cooling water pump, 140 t/h, rotary, and a "stand by" lubricating oil pump, 140 t/h, rotary, are driven through clutch coupling by the 2-cyl. auxiliary oil engine working one of the 10 kts. dynamos.

Christoff.

THE ABOVE IS A CORRECT DESCRIPTION

