

REPORT ON BOILERS.

No. 12649

Received at London Office FRI. 22 DEC. 1922

Date of writing Report 16 Dec 1922 When handed in at Local Office 19 Port of Rotterdam

No. in Survey held at Rotterdam Date, First Survey 20 Aug Last Survey 29 Nov 1922

Reg. Book. 67408 on the new main boiler S/S "MIDRECHT" (Number of Visits 13) Gross 3476 Tons Net 2169

Master Built at Rotterdam By whom built Rijk Droogdok Bv When built 1912

Engines made at Rotterdam By whom made ditto When made 1912

Boilers made at Rotterdam By whom made ditto When made 1922

Registered Horse Power 324 Owners Ch. Bommersen (mgr) Port belonging to Rotterdam

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel William Beardmore & Co. Ltd.

(Letter for record 5) Total Heating Surface of Boilers 4590 sq ft Is forced draft fitted Yes No. and Description of Boilers 2 S E multitubular Working Pressure 180 lbs Tested by hydraulic pressure to 320 lbs Date of test 2-11-22

No. of Certificate 772 Can each boiler be worked separately Yes Area of fire grate in each boiler 56.54 sq ft No. and Description of safety valves to each boiler 2 Spring loaded Area of each valve 12.86 sq in Pressure to which they are adjusted 180 lbs.

Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No

Smallest distance between boilers for uptakes and bunkers or woodwork Yes Mean dia. of boilers 15' 0" Length 11' 1 5/8"

Material of shell plates Sell Thickness 1/4" Range of tensile strength 20-22 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams 2 x lap long. seams 3 x D butt Diameter of rivet holes in long. seams 1/4" Pitch of rivets 8 1/4"

Lap of plates or width of butt straps 11-6 1/2" Per centages of strength of longitudinal joint rivets 90.6 plate 84.0 Working pressure of shell by rules 102 lbs Size of manhole in shell 12 x 16 Size of compensating ring No. and Description of Furnaces in each boiler 3 Horizontal Material Sell Outside diameter 3'-9 1/2" Length of plain part top 1/6" bottom 1/6" Thickness of plates crown 9/16" bottom 1/6"

Description of longitudinal joint Welded No. of strengthening rings Working pressure of furnace by the rules 180 Combustion chamber plates: Material Sell Thickness: Sides 2 3/32" Back 1/16" Top 2 3/32" Bottom 7/8" Pitch of stays to ditto: Sides 8 1/4 x 7 1/2" Back 7 x 7 1/6"

Top 8 1/4 x 8 1/2" Stays are fitted with nuts or riveted heads Riveted Working pressure by rules 195 Material of stays Sell Area at smallest part 1/4" Area supported by each stay 60.8 Working pressure by rules 205 End plates in steam space: Material Sell Thickness 1 3/16"

Pitch of stays 7 x 8 1/2" How are stays secured Riveted Working pressure by rules 186 Material of stays Sell Area at smallest part 5.94

Area supported by each stay 3 1/6 Working pressure by rules 206 Material of Front plates at bottom Sell Thickness 1 3/16" Material of Lower back plate Sell Thickness 1 3/16" Greatest pitch of stays 15 9/16" Working pressure of plate by rules 420 Diameter of tubes 3 1/4"

Pitch of tubes 4 3/8" Material of tube plates Sell Thickness: Front 1 3/16" Back 3/4" Mean pitch of stays 8 3/4" Pitch across wide water spaces 15 1/4" Working pressures by rules 183 Girders to Chamber tops: Material Sell Depth and thickness of girder at centre 9 1/2 x 2 x 3/4 Length as per rule 3'-0" Distance apart 8 1/2" Number and pitch of Stays in each 3 x 8 1/4"

Working pressure by rules 190 Steam dome: description of joint to shell Yes % of strength of joint

Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type Smiat Date of Approval of Plan Tested by Hydraulic Pressure to 540 lbs.

Date of Test 22-11-22 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Yes

Diameter of Safety Valve 12" lbs Pressure to which each is adjusted 105 lbs Is Easing Gear fitted Yes

The foregoing is a correct description, A. Knape Manufacturer.

Dates of Survey During progress of work in shops - 20/8-9-12-19-7/10-10/10-7/12-27/12-27/12 Is the approved plan of boiler forwarded herewith Return in Local Office

while building During erection on board vessel - 7/11-22/11-27/11 Total No. of visits 13

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The boilers have been built in accordance with the Society's Rules approved plan and Secretary's letters. The workmanship is good. The boilers have been placed in the S/S "Hydracht"

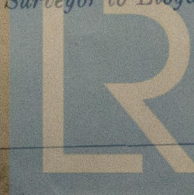
Survey Fee ... £ 335.00 When applied for, 20/12 1922

Travelling Expenses (if any) ... 1.50 When received, 19

Committee's Minute FRI. 29 DEC. 1922

Assigned

Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register of Shipping