

# REPORT ON BOILERS.

No. 18291

Received at London Office 10 APR 1929

When handed in at Local Office 1929 Port of Rotterdam  
 held at Rotterdam Date, First Survey 10-7-20 Last Survey 23-3-1929  
5/3 "MOERDIJK" (Number of Visits 19) Gross Tons 19 Net Tons 19  
 Built at Wesermünde G. By whom built J.C. Tecklenburg Ag. Yard No. 1914 When built 1914  
So By whom made So Engine No. 164 When made 1923  
Rotterdam By whom made Wilton's Eng. & Shipw. Co. Boiler No. 164 When made 1923  
 Owners Ned. Amer. Str. Mg. Holl. Amerika Line Port belonging to Rotterdam

## ULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Steel David Colville & Sons Ltd Glasgow. (Letter for Record S.)  
 Surface of Boilers 13624 sq ft Is forced draught fitted Yes Coal or Oil fired Coal.  
 Type of Boilers 4. Multitubular marine boilers Working Pressure 206 H.  
 Working pressure to 360 H. Date of test 13-12-20 No. of Certificate 901. Can each boiler be worked separately Yes.  
240 sq ft in each Boiler 60 sq ft No. and Description of safety valves to each boiler 2 spring loaded.  
 of valves per boiler { per Rule 3 15/16" Pressure to which they are adjusted 206 H. Are they fitted with easing gear Yes  
 as fitted 3 15/16" boilers, state whether steam from main boilers can enter the donkey boiler ✓  
 between boilers or uptakes and bunkers or woodwork ✓ Is oil fuel carried in the double bottom under boilers ✓  
 between shell of boiler and tank top plating 18" Is the bottom of the boiler insulated Yes.  
 dia. of boilers 15'-9" Length 12'-1 5/8" Shell plates: Material S.M. steel Tensile strength 29-32.  
2 1/4" Are the shell plates welded or flanged no Description of riveting: circ. seams { end ✓  
 inter. ✓ Diameter of rivet holes in { circ. seams 1 1/16" Pitch of rivets { 4 1/4"  
 long. seams 9 3/4" length of circ. end seams { plate 52.9% rivets 65.7% Percentage of strength of circ. intermediate seam { plate ✓  
 rivets ✓ length of longitudinal joint { plate 85.4% rivets 90.2% combined 88.5% Working pressure of shell by Rules 216 H.  
 straps { outer 1 1/8" inner 1 1/4" No. and Description of Furnaces in each Boiler 3 Bulb suspension.  
 n. steel. Tensile strength 26-30 T. Smallest outside diameter 44 1/16"  
 part { top ✓ bottom ✓ Thickness of plates { crown 3 5/8" bottom 3 5/8" Description of longitudinal joint welded.  
 stiffening rings on furnace or c.c. bottom ✓ Working pressure of furnace by Rules 216 H.  
 main space: Material S.M. steel Tensile strength 26-30 T. Thickness 1 1/4" Pitch of stays 2 1/2" x 20 1/2"  
 cured screwed in plate, riv. washers and nuts outside. Working pressure by Rules 250 H.  
 material { front S.M. steel back S.M. steel Tensile strength { 26-30 Thickness { 15/16"  
 by tubes in nests 12 3/16" x 7 7/8" Pitch across wide water spaces 13 3/4" x 3 15/16" Working pressure { front 231 H.  
 back 232 H. stion chamber tops: Material S.M. steel Tensile strength 20-32 T. Depth and thickness of girder  
2" x 2" x 7/8" Length as per Rule 33 5/8" Distance apart 7 5/8" No. and pitch of stays  
26-30 T. Working pressure by Rules 267 H. Combustion chamber plates: Material S.M. steel  
 Thickness: Sides 2 1/32" Back 2 1/32" Top 2 1/32" Bottom 25/16"  
 itto: Sides 0 1/4" x 0 1/4" Back 0 1/2" x 0 1/4" Top 7 5/8" x 0 1/4" Are stays fitted with nuts or riveted over nuts.  
 by Rules 214 H. Front plate at bottom: Material S.M. steel Tensile strength 26-30 T.  
1/16" Lower back plate: Material S.M. steel Tensile strength 26-30 T. Thickness 7/8"  
 wide water space 14 1/2" x 0 1/4" Are stays fitted with nuts or riveted over nuts.  
220 H. Main stays: Material S.M. steel Tensile strength 20-32 T.  
 stay, 3 1/4" No. of threads per inch 6. Area supported by each stay 440 sq in.  
3 3/4" Screw stays: Material Iron. Tensile strength 23.  
 by Rules 210 H. No. of threads per inch 9 Area supported by each stay 70 sq in.  
 off part, 1 5/8"

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Working pressure by Rules 217 H. Are the stays drilled at the outer ends no Margin stays: Diameter { At turned off part, 1 1/2  
or  
Over threads 1 1/2  
No. of threads per inch 9 Area supported by each stay 94.075 sq. in. Working pressure by Rules 224  
Tubes: Material Iron. External diameter { Plain 2 3/4 Thickness 11.9 259. No. of threads per inch  
Stay 2 3/4 9/16, 3/8  
Pitch of tubes 3 15/16 Working pressure by Rules 215 H. Manhole compensation:  
shell plate 16 1/2 x 20 1/2 Section of compensating ring 7 1/2 x 2 x 2-08 M No. of rivets and diameter of rivet holes 32 x  
Outer row rivet pitch at ends 9 1/4 Depth of flange if manhole flanged 4 1/4 Steam Dome: Material ✓  
Tensile strength ✓ Thickness of shell ✓ Description of longitudinal joint ✓  
Diameter of rivet holes ✓ Pitch of rivets ✓ Percentage of strength of joint { Plate ✓  
Rivets ✓  
Internal diameter ✓ Working pressure by Rules ✓ Thickness of crown ✓  
stays ✓ Inner radius of crown ✓ Working pressure by Rules ✓  
How connected to shell ✓ Size of doubling plate under dome ✓ Diameter of rivets in outer row in dome connection to shell ✓

Type of Superheater Manufacturers of { Tubes  
Steel castings  
Number of elements Material of tubes Internal diameter and thickness of tubes  
Material of headers Tensile strength Thickness Can the superheater be worked separately  
Is a safety valve fitted to every part of the superheater which can be shut off from the boiler  
Area of each safety valve Are the safety valves fitted with easing gear Work  
Rules Pressure to which the safety valves are adjusted Hyd  
tubes castings and after assembly in place Are drain co  
to free the superheater from water where necessary

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

The foregoing is a correct description  
**WILTON'S Engineering & Shipway**

Dates of Survey { During progress of work in shops - - 10-21-30 / 4 / 12-24 / 4-6-10-18-24  
while building { During erection on board vessel - - 1-9-20 / 11 - 5-13-22 / 12-28 / 2-23-24  
No. of visits 19.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been under special survey in accordance with the Society's Rules, and approved plans. Material tested as required and workmanship

Survey Fee ... £ 694.00 When applied for, 0/4 1929  
Travelling Expenses (if any) £ 9.50 When received, 17-16 1929

Committee's Minute

FRI. 26 APR 1929

Assigned

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