

REPORT ON BOILERS.

No. 12140

Received at London Office

15 JAN 1931

Date of writing Report 24 Jan 1931 When handed in at Local Office

102 Port of AMSTERDAM

No. in Survey held at AMSTERDAM

Date, First Survey April 4 Last Survey August 1930

--- on the M.V. "ALDEGONDA"

(Number of Visits 4) Gross -
Net - Tons

Master - Built at Schiedam By whom built Werf "Gusto" Yard No. 652 When built 1931

Engines made at Amsterdam By whom made N.V. Werkspoor Engine No. - When made 1931

Boilers made at Amsterdam By whom made N.V. Werkspoor Boiler No. - When made 1931

Nominal Horse Power 2 X 143 Owners Anglo Saxon Petroleum Co. Port belonging to London

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Kenschel (Letter for Record S)

Total Heating Surface of Boilers 925 sq. ft. Is forced draught fitted Yes Coal or Oil fired Oil fired

No. and Description of Boilers Horizontal main boiler Working Pressure 150 lb

Tested by hydraulic pressure to 245 lb Date of test 21-8-30 No. of Certificate 368 Can each boiler be worked separately Yes

Area of Firegrate in each Boiler Yes No. and Description of safety valves to each boiler Two Spring loaded

Area of each set of valves per boiler per Rule 8.4 sq. inch Pressure to which they are adjusted Yes Are they fitted with easing gear Yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler Yes

Smallest distance between boilers or uptakes and bunkers or woodwork Yes Is oil fuel carried in the double bottom under boilers Yes

Smallest distance between shell of boiler and tank top plating Yes Is the bottom of the boiler insulated Yes

Largest internal dia. of boilers 9' 10" Length 9' 8" Shell plates: Material S.M. Steel Tensile strength 29-33 tons

Thickness 25/32" Are the shell plates welded or flanged No Description of riveting: circ. seams and all rivets

long. seams all butt straps, all intermediate Diameter of rivet holes in circ. seams 1" Pitch of rivets 5 1/8"

Percentage of strength of circ. end seams plate 40% Percentage of strength of circ. intermediate seam plate 44%

Percentage of strength of longitudinal joint plate 80.8% Working pressure of shell by Rules 165 lb

rivets 80.5% combined 82%

Thickness of butt straps outer 23/32" No. and Description of Furnaces in each Boiler 2 main furnaces

Material Steel Tensile strength 24-30 tons Smallest outside diameter 32 1/2"

Length of plain part top 4" Thickness of plates bottom 3 1/4" Description of longitudinal joint Welded

Dimensions of stiffening rings on furnace or c.c. bottom Yes Working pressure of furnace by Rules 190 lb

End plates in steam space: Material Steel Tensile strength 24-30 tons Thickness 15/16" Pitch of stays 15 x 15"

How are stays secured all nuts Working pressure by Rules 180 lb

Tube plates: Material front Steel Tensile strength 24-30 tons Thickness 15/16"

back Steel Mean pitch of stay tubes in nests 10 1/2" Pitch across wide water spaces 14 1/2" Working pressure front 165 lb

back 180 lb

Girders to combustion chamber tops: Material Steel Tensile strength 28-32 tons Depth and thickness of girder

at centre 6" x 1 1/4" Length as per Rule 23 1/2" Distance apart 7 1/2" No. and pitch of stays

in each 2 - 4 1/8" Working pressure by Rules 190 lb Combustion chamber plates: Material Steel

Tensile strength 24-30 tons Thickness: Sides 21.5/32" Back 21.5/32" Top 21.5/32" Bottom .52"

Pitch of stays to ditto: Sides 7 1/8" x 7 1/8" Back 8 1/4" x 7 1/8" Top 7 1/8" x 7 1/2" Are stays fitted with nuts or riveted over rivets over

Working pressure by Rules 158 lb Front plate at bottom: Material Steel Tensile strength 26-30 tons

Thickness 15/16" Lower back plate: Material Steel Tensile strength 24-30 tons Thickness 15/16"

Pitch of stays at wide water space 7 1/8" x 13" Are stays fitted with nuts or riveted over nutted

Working Pressure 300 lb Main stays: Material Steel Tensile strength 28-32 tons

Diameter At body of stay 2 3/8" No. of threads per inch 8 Area supported by each stay 225 sq. inch

Over threads 1 7/8" Working pressure by Rules 185 lb Screw stays: Material Steel Tensile strength 26-30 tons

Diameter At turned off part 1 7/8" No. of threads per inch 16 Area supported by each stay 63 sq. inch



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Working pressure by Rules 145 lb. Are the stays drilled at the outer ends Yes Margin stays: Diameter ^{At turned off part.} 1 1/2"
 No. of threads per inch 11 Area supported by each stay 8 1/2 sq. inch. Working pressure by Rules 165 lb.
 Tubes: Material Iron (Superheater) External diameter ^{Plain} 2 1/4" Thickness ^{Stay} 5/16" No. of threads per inch 11
 Pitch of tubes 3 15/16" x 3 15/16" Working pressure by Rules 215 lb. Manhole compensation: Size of opening in
 shell plate 14 1/2" x 18 1/2" Section of compensating ring 16 sq. inch. No. of rivets and diameter of rivet holes 40 - 1 1/8"
 Outer row rivet pitch at ends 4 1/2" Depth of flange if manhole flanged 3" 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} <
 Internal diameter < Working pressure by Rules < Thickness of crown < No. and diameter of
 stays < Inner radius of crown < Working pressure by Rules <
 How connected to shell < Size of doubling plate under dome < Diameter of rivet holes and pitch
 of rivets in outer row in dome connection to shell <
 Type of Superheater < Manufacturers of ^{Tubes} <
 Number of elements < Material of tubes < ^{Steel castings} < Internal diameter and thickness of tubes <
 Material of headers < Tensile strength < Thickness < Can the superheater be shut off and
 the boiler 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 < Working pressure as per
 Rules < Pressure to which the safety valves are adjusted < Hydraulic test pressure:
 tubes < castings < and after assembly in place < Are drain cocks or valves fitted
 to free the superheater from water where necessary <

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with <

The foregoing is a correct description,
WERKSPOR N.V.
 Manufacturer.

Dates of Survey ^{During progress of work in shops - -} 7/4, 2/4, 2/5, 3/6, 1/7, 1/8, 2/8. Are the approved plans of boiler and superheater forwarded herewith <
 while building ^{During erection on board vessel - - -} < (If not state date of approval.) <
 Total No. of visits 4

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
 The boiler has been constructed under Special Survey, in accordance with the Rules, Secretary's letters and approved plans. Material tested as required and workmanship good.

Survey Fee £ 192 : : When applied for. 192
 Travelling Expenses (if any) £ 192 : : When received. 192

F. W. Bennett
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 21 MAR '01
 Assigned See F. O. Rpt.

