

# REPORT ON BOILERS.

No. 24025

Received at London Office.....

Date of writing Report 23<sup>RD</sup> DEC. 1949 When handed in at Local Office 27<sup>TH</sup> DEC. 1949 Port of GREENOCK

No. in Survey held at GREENOCK Date, First Survey 23<sup>TH</sup> APRIL 1949 Last Survey 16<sup>TH</sup> DECEMBER 1949

on the SING S. "NORDBO" TANKER, Oil ENGINE (Number of Visits.....) Gross 9063.6 Tons Net 5216.6

ster Built at PORT GLASGOW By whom built W. HAMILTON & CO L<sup>D</sup> Yard No. 480 When built 1949

ines made at GREENOCK By whom made JOHN G. KINCAID & CO L<sup>D</sup> Engine No. 1207 When made 1949

ilers made at do By whom made do Boiler No. 1207 When made 1949

iminal Horse Power 880 Owners H. KUHNLES PEDERSEN A/S Port belonging to BERGEN

## MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel COLVILLE L<sup>D</sup> (Letter for Record S)

total Heating Surface of Boilers 4022 sq ft Is forced draught fitted Yes Coal or Oil fired Oil

and Description of Boilers 2 cylindrical SE 10-10-49 2557 Working Pressure 150 lbs

sted by hydraulic pressure to 275 Date of test 14-10-49 No. of Certificate 2559 Can each boiler be worked separately Yes

ea of Firegrate in each Boiler No. and Description of safety valves to each boiler 2 1/4" double spring IHL CI

ea of each set of valves per boiler per Rule 7.6 as fitted 7.96 Pressure to which they are adjusted 152 Are they fitted with easing gear Yes

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

allest distance between boilers or uptakes and bunkers or woodwork Is oil fuel carried in the double bottom under boilers. boiler on up dx

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

ggest internal dia. of boilers 13'-9" Length 10'-9" Shell plates: Material S Tensile strength 29/33 tons

ickness 15/16 Are the shell plates welded or flanged No Description of riveting: circ. seams end DR inter 3.066

g. seams TRODS Diameter of rivet holes in circ. seams 1" long. seams 1" Pitch of rivets 7.125

centage of strength of circ. end seams plate 67.4 rivets 43.2 Percentage of strength of circ. intermediate seam plate 86 rivets 87.6

centage of strength of longitudinal joint plate 86 rivets 87.6 combined 89.4 Working pressure of shell by Rules 154 lbs

ickness of butt straps outer 23/32 inner 27/32 No. and Description of Furnaces in each Boiler Thos Dighton corrugated

terial S Tensile strength 26/30 tons Smallest outside diameter 3'-3 1/8"

gth of plain part top bottom Thickness of plates crown 15/32 bottom 15/32 Description of longitudinal joint Weld

ensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules

l plates in steam space: Material S Tensile strength 26/30 tons Thickness 1/8" Pitch of stays 20" x 19"

are stays secured DN Working pressure by Rules 29/32

plates: Material front S back S Tensile strength 26/30 tons Thickness 23/32

Th pitch of stay tubes in nests 10'-9" Pitch across wide water spaces 1'-2" Working pressure front back 29/33 tons

Boilers to combustion chamber tops: Material S Tensile strength 29/33 tons Depth and thickness of girder

entre 9 1/2" x 1" Length as per Rule 2'-8 1/16" Distance apart 9 1/2" No. and pitch of stays

ach two @ 10 1/4" Working pressure by Rules Combustion chamber plates: Material S

ile strength 26/30 tons Thickness: Sides 21/32 Back 19/32 Top 21/32 Bottom 21/32

of stays to ditto: Sides 10 1/4" x 9 1/2" Back 8 3/4" x 8 3/4" Top 10 1/4" x 9 1/2" Are stays fitted with nuts or riveted over Nuts

ing pressure by Rules Front plate at bottom: Material S Tensile strength 26/30 tons

ness 29/32 Lower back plate: Material S Tensile strength 26/30 tons Thickness 23/32

of stays at wide water space 14" x 8 3/4" Are stays fitted with nuts or riveted over Nuts

ing pressure Main stays: Material S Tensile strength 28/32 tons

eter At body of stay 2 3/4" No. of threads per inch 6 Area supported by each stay

Over threads 1 1/2" x 1 3/5" Screw stays: Material S Tensile strength 26/30 tons

ing pressure by Rules At turned off part 1 1/2" x 1 3/5" No. of threads per inch 9 Area supported by each stay

eter Over threads 1 1/2" x 1 3/5"



Working pressure by Rules. Are the stays drilled at the outer ends. Margin stays: Diameter <sup>At turned off part</sup> or <sup>Over threads</sup> 1 3/8" ✓  
No. of threads per inch 9 ✓ Area supported by each stay. Working pressure by Rules.  
Tubes: Material S External diameter <sup>Plain</sup> 3" ✓ <sup>Stay</sup> 3" Thickness 9.49 ✓ 1/4" 5/16" No. of threads per inch 9 ✓  
Pitch of tubes 4 1/4" x 4 1/4" ✓ Working pressure by Rules. Manhole compensation: Size of opening 4 1/2" ✓  
shell plate 16 1/2" x 20 1/2" ✓ Section of compensating ring 2' 10" x 2' 6" x 5/16" No. of rivets and diameter of rivet holes 45 @ 1" ✓  
Outer row rivet pitch at ends 7" ✓ Depth of flange if manhole flanged McNeil type down Steam Dome: Material  
Tensile strength Thickness of shell Description of longitudinal joint  
Diameter of rivet holes Pitch of rivets Percentage of strength of joint <sup>Plate</sup> <sup>Rivets</sup>  
Internal diameter Working pressure by Rules Thickness of crown No. and diameter  
stays Inner radius of crown Working pressure by Rules  
How connected to shell Size of doubling plate under dome Diameter of rivet holes and  
of rivets in outer row in dome connection to shell

Type of Superheater Manufacturers of Tubes Steel forgings Steel castings  
Number of elements Material of tubes Internal diameter and thickness of tubes  
Material of headers Tensile strength Thickness Can the superheater be shut off  
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  
Rules Pressure to which the safety valves are adjusted Hydraulic test pres  
tubes forgings and castings and after assembly in place Are drain con  
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,  
For JOHN G. KINCAID & CO., LTD.  
Chief Draughtsman.

Dates of Survey while building { During progress of work in shops - - - Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)  
During erection on board vessel - - - Total No. of visits

Is this Boiler a duplicate of a previous case. If so, state Vessel's name and Report No.

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

These boilers have been constructed under Special survey in accordance with the R. and approved plans. The materials & workmanship are sound & good. The safety valves have been adjusted under steam for a working pressure of 150 lbs/sq. in. For recommendation please see machinery report GRK N

Survey Fee ... £ : When applied for, 19...  
Travelling Expenses (if any) £ : When received, 19...

See machinery report

Charles McHunter  
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute GLASGOW - 5 JAN 1950

Assigned SEE ACCOMPANYING MACHINERY REPORT.



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