

## REPORT ON BOILERS.

No. 24558

Received at London Office. 23 JAN 1952

Date of writing Report 10<sup>th</sup> JAN 4 1952 When handed in at Local Office 14<sup>th</sup> JAN 1952 Port of GREENOCK

No. in Survey held at GREENOCK Date, First Survey 30<sup>th</sup> OCTOBER 1950 Last Survey 24<sup>th</sup> DECEMBER 1951

Reg. Book. on the SING SE HOLMGAR GILLING (Number of Visits) Gross 8996.75 Tons Net 5734.4

Master Built at PORT GLASGOW By whom built W. HAMILTON & CO L<sup>o</sup> Yard No. 486 When built 1951

Engines made at GREENOCK By whom made JOHN G. KINCAID & CO L<sup>o</sup> Engine No. 4222 When made 1951

Boilers made at do By whom made do Boiler No. 4222 When made 1951

Nominal Horse Power 880 Owners STAMERS REDERI A/S Port belonging to BERGEN

## MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel COLVILLE L<sup>o</sup> (Letter for Record S 1-GILLING GAS)

Total Heating Surface of Boilers 4022 Is forced draught fitted Yes ✓ Coal or Oil fired 162 ONLY

No. and Description of Boilers 2 SE multitubular 20-7-51 2650 Working Pressure 150

Tested by hydraulic pressure to 275 Date of test 27-7-51 No. of Certificate 2651 Can each boiler be worked separately Yes

Area of Firegrate in each Boiler ✓ No. and Description of safety valves to each boiler Double spring 1HL. ✓

Area of each set of valves per boiler { per Rule 7.18 as fitted 7.96 Pressure to which they are adjusted 152 lb Are they fitted with easing gear Yes

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

Smallest distance between boilers or uptakes and bunkers or woodwork ✓ Is oil fuel carried in the double bottom under boilers No

Smallest distance between shell of boiler and tank top plating Bottom on Tween deck Is the bottom of the boiler insulated Yes

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

Thickness 15/16" Are the shell plates welded or flanged No Description of riveting: circ. seams { end DR inter ✓

long. seams TROBS Diameter of rivet holes in { circ. seams 15/16 long. seams 15/16 Pitch of rivets { 3.066" 7 3/16" ✓

Percentage of strength of circ. end seams { plate 67.4 rivets 43.2 Percentage of strength of circ. intermediate seam { plate 86.2 rivets 86.7

Percentage of strength of longitudinal joint { plate 86.2 rivets 86.7 Working pressure of shell by Rules 152 lb ✓

Thickness of butt straps { outer 23/32 inner 23/32 No. and Description of Furnaces in each Boiler Three Daignton corrugated. ✓

Material SMS Tensile strength 24/30 tons Smallest outside diameter 3'-3 1/2" ✓

Length of plain part { top ✓ bottom ✓ Thickness of plates { crown 15/32 bottom 15/32 Description of longitudinal joint Weld. ✓

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

End plates in steam space: Material S Tensile strength 24/30 tons Thickness 1 1/8" Pitch of stays 20" x 19" ✓

How are stays secured D.N. ✓ Working pressure by Rules

Tube plates: Material { front SMS back SMS Tensile strength { 24/30 tons Thickness { 13/16 23/32 ✓

Mean pitch of stay tubes in nests 10'-6 25" Pitch across wide water spaces 14" Working pressure { front back

Girders to combustion chamber tops: Material SMS Tensile strength 29/33 tons ✓ Depth and thickness of girder

at centre 9 5/8" x 1 1/8" Length as per Rule 2'-8 1/8" Distance apart 9 1/2" No. and pitch of stays

n each three welds 3 long 8 Pitch Working pressure by Rules Combustion chamber plates: Material S

Tensile strength 24/30 tons Thickness: Sides 21/32 Back 19/32 Top 21/32 Bottom 21/32 ✓

Pitch of stays to ditto: Sides 10 7/8" x 8 3/4" Back 8 3/4" x 8 3/4" Top 9 1/2" x 8" Are stays fitted with nuts or riveted over Nuts ✓

Working pressure by Rules Front plate at bottom: Material S Tensile strength 24/30 tons

Thickness 13/16 Lower back plate: Material S Tensile strength 24/30 tons Thickness 23/32 ✓

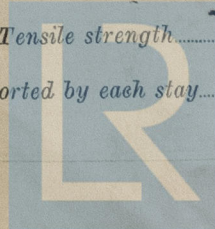
Pitch of stays at wide water space 14" x 8 3/4" Are stays fitted with nuts or riveted over Nuts ✓

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

diameter { At body of stay 2 3/4" No. of threads per inch 6 Area supported by each stay 24/30 tons ✓

Working pressure by Rules Screw stays: Material S Tensile strength 24/30 tons ✓

diameter { At turned off part 1 1/2 x 1 3/8 No. of threads per inch 9 Area supported by each stay



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Working pressure by Rules..... Are the stays drilled at the outer ends *No* ✓ Margin stays: Diameter { At turned off part, *1 5/8*  
or  
Over threads.....  
No. of threads per inch *9* ✓ Area supported by each stay..... Working pressure by Rules.....  
Tubes: Material *Hot rolled steel* ✓ External diameter { Plain *3* ✓ Thickness { *9/16* ✓ No. of threads per inch *9*  
Stay *3* ✓  
Pitch of tubes *4 1/4 x 4 1/4* ✓ Working pressure by Rules..... Manhole compensation: Size of opening in  
shell plate *16 1/2 x 20 1/2* ✓ Section of compensating ring *2' 10" x 2' 6" x 1 5/16* ✓ No. of rivets and diameter of rivet holes *46 x 1"*  
Outer row rivet pitch at ends *7 3/16* ✓ Depth of flange if manhole flanged *Mr Neil Lynden* ✓ 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..... 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.....  
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 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..... forgings and 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.....

For JOHN G. KINCAID & COY., LIMITED.  
The foregoing is a correct description,

*A. H. Crawford* Manufacturer  
Chief Draughtsman.

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

Is this Boiler a duplicate of a previous case *No* 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 Rules & approved plans. The materials & workmanship are sound & good. They have been efficiently installed in the vessel & their safety valves adjusted under steam for a working pressure of 150 lbs/sq. in. For recommendations please see Gok FE machinery report N° 24558.*

Survey Fee ... .. £

Travelling Expenses (if any) £

When applied for.....19.....

When received.....19.....

*Charles J. Hunter*

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute.....

Assigned.....

GLASGOW 22 JAN 1952

SEE ACCOMPANYING MACHINERY REPORT



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