

Rpt. 5a.

REPORT ON BOILERS.

No. 56114

Received at London Office

20 MAY 1948

Date of writing Report 8th Apr. 1948 When handed in at Local Office 8th Apr. 1948 Port of CARDIFF

No. in Reg. Book. 37106 on the S.S. "BALTCON"

Date, First Survey 19th DECEMBER 1947 Last Survey 25th MARCH 1948

(Number of Visits 21) Gross Tons 1570 Net Tons 915

Master Built at VAERKSTAD OSLO By whom built NYLANDS Yard No. When built 1922

Engines made at OSLO By whom made NYLANDS Engine No. 472 When made 1922

Boilers made at OSLO By whom made NYLANDS Boiler No. 924/925 When made 1922

Nominal Horse Power 186 Owners KONNEL S.S. Co., LTD. Port belonging to HULL

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

(Letter for Record S)

Total Heating Surface of Boilers 3144 ft² ✓

Is forced draught fitted NO ✓

Coal or Oil fired COAL ✓

No. and Description of Boilers 2. SINGLE - ENDED ✓

Working Pressure 180 lbs/sq" ✓

Tested by hydraulic pressure to — Date of test — No. of Certificate — Can each boiler be worked separately YES ✓

Area of Firegrate in each Boiler 34 ft² ✓ No. and Description of safety valves to each boiler 2. SPRING LOADED COCKBURNS HIGH-LIFT ✓

Area of each set of valves per boiler {per Rule 10.07 as fitted 11.86" ✓ Pressure to which they are adjusted 180 lbs/sq" ✓ 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 12" ✓ Is oil fuel carried in the double bottom under boilers —

Smallest distance between shell of boiler and tank top plating 16 1/2" ✓ Is the bottom of the boiler insulated YES ✓

Largest internal dia. of boilers 13'-3" ✓ Length 10'-6" ✓ Shell plates: Material STEEL ✓ Tensile strength —

Thickness 1 5/64" ✓ Are the shell plates welded or flanged FLANGED ✓ Description of riveting: circ. seams {end DOUBLE RIVETED LAP

long. seams TREBLE RIVETED DOUBLE BUTT STRAP Diameter of rivet holes in {circ. seams 1 5/32" ✓ Pitch of rivets {3 3/8" ✓

Percentage of strength of circ. end seams {plate 68.9% rivets — Percentage of strength of circ. intermediate seam {plate 68.9% rivets —

Percentage of strength of longitudinal joint {plate 86.76% rivets — Working pressure of shell by Rules —

Thickness of butt straps {outer 1 1/8" ✓ inner 1 1/8" ✓ No. and Description of Furnaces in each Boiler 3. PLAIN FURNACES ✓

Material MILD STEEL ✓ Tensile strength — Smallest outside diameter 3'-3 1/2" ✓

Length of plain part {top 6'-7 5/16" ✓ bottom 7'-4 3/8" ✓ Thickness of plates {crown 3/4" ✓ bottom 3/4" ✓ Description of longitudinal joint FIRE WELDED ✓

Dimensions of stiffening rings on furnace or c.c. bottom NONE ✓ Working pressure of furnace by Rules 182.8 lbs/sq" ✓

End plates in steam space: Material STEEL ✓ Tensile strength — Thickness 27/32" 1 1/32" Pitch of stays 18" x 14" ✓

How are stays secured DOUBLE NUTS ✓ Working pressure by Rules 217.5 lbs/sq" ✓

Tube plates: Material {front STEEL ✓ back " Tensile strength { — Thickness {1 1/32" TOP 1" BOTTOM ✓

Mean pitch of stay tubes in nests 13 1/2" Pitch across wide water spaces 14" ✓ Working pressure {front — back —

Girders to combustion chamber tops: Material STEEL ✓ Tensile strength — Depth and thickness of girder

at centre 8 7/8" x 3/4" ✓ Length as per Rule 2'-5 9/16" ✓ Distance apart CENTRE 9 1/2" WINGS 7 1/2" ✓ No. and pitch of stays

in each WING 2 " 6 1/4" ✓ Working pressure by Rules 208.5 lbs/sq" ✓ Combustion chamber plates: Material STEEL ✓

Tensile strength — Thickness: Sides 19/32" ✓ Back 5/8" ✓ Top 19/32" ✓ Bottom 15/16" ✓

Pitch of stays to ditto: Sides 8 3/4" x 7 1/2" ✓ Back 8 1/4" x 8" ✓ Top 6 1/4" + 8 3/4" ✓ Are stays fitted with nuts or riveted over NUTS ✓

Working pressure by Rules 183 lbs/sq" Front plate at bottom: Material STEEL ✓ Tensile strength —

Thickness 1" ✓ Lower back plate: Material STEEL Tensile strength — Thickness 27/32" ✓

Pitch of stays at wide water space 14 1/4" ✓ Are stays fitted with nuts or riveted over NUTS

Working Pressure 217.7 lbs/sq" Main stays: Material MILD STEEL ✓ Tensile strength —

Diameter {At body of stay, 2 7/8" + 2 5/8" ✓ 2 3/4" No. of threads per inch 6 ✓ Area supported by each stay 252 sq"

Working pressure by Rules 196.8 lbs/sq" Screw stays: Material MILD STEEL Tensile strength —

Diameter {At turned off part, 1 5/8" + 1 1/2" ✓ No. of threads per inch 11 ✓ Area supported by each stay 70 sq"

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Working pressure by Rules 217 3lbs/a Are the stays drilled at the outer ends NO Margin stays: Diameter ^{At turned off part,} 1 5/8" ^{or} 1 3/4" ^{Over threads} ✓

No. of threads per inch 11 ✓ Area supported by each stay 86 a" Working pressure by Rules 211 lbs/a ✓

Tubes: Material IRON ✓ External diameter ^{Plain} 3 1/4" ✓ ^{Stay} 3 1/4" ✓ Thickness Nº 8 L.S.G. ✓ No. of threads per inch 11 ✓

Pitch of tubes 4 1/2" x 4 3/8" ✓ Working pressure by Rules 230 lbs/a ✓ Manhole compensation: Size of opening in shell plate 16" x 12" Section of compensating ring 1 1/16" ✓ No. of rivets and diameter of rivet holes 40

Outer row rivet pitch at ends 4 1/2" Depth of flange if manhole flanged 2 1/2" Steam Dome: Material NONE

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 NONE 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 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 23 inclusive for boilers been complied with —

The foregoing is a correct description,

Manufacturer.

Dates of Survey ^{During progress of work in shops - -} ^{while building} ^{During erection on board vessel - - -}

Are the approved plans of boiler and superheater forwarded herewith YES (If not state date of approval.)

Total No. of visits

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

THESE BOILERS HAVE BEEN BUILT UNDER SURVEY AND CLASS OF NORSKE VERITAS. SCANTLINGS HAVE BEEN VERIFIED AS FAR AS PRACTICABLE AND SO FAR AS CAN BE SEEN THE MATERIALS AND WORKMANSHIP ARE GOOD THE BOILERS ARE ELIGIBLE IN OUR OPINION TO BE CLASSED AS PER REPORT 4.

Please inform "T" re fees.

Survey Fee £

When applied for, 192

Travelling Expenses (if any) £

When received, 192

W. E. Davies & Hamish W. H. Paton

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 11 JUN 1948

Assigned

Sir F. E. Mch. & pl.



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Lloyd's Register Foundation

Rpt. 13.

Date of writing B

No. in Survey Reg. Book.

37106 on the

Built at VAE

Owners KO

Electric Light

Is the Vessel for

System of Dis

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If alternating cu

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voltmeters

EART

do these comply u