

RECEIVED

APR 1950

D.O.

REPORT ON BOILERS.

No. 107133

Received at London Office 1 APR 1950

by Rules of writing Report 31.3.50 When handed in at Local Office 31.3.50 Port of NEWCASTLE-ON-TYNE

Actual 2.24% ENDS No. in Survey held at WALLSEND-ON-TYNE Date, First Survey 23/8/48 Last Survey 30.3.50

by Rules 25 on the M.V. ROSA MAERSK (Number of Visits 23) Tons Gross 819.1.83 Net 4827.10

ster Built at BLYTH By whom built BLYTH DO & SBC. L^{td} Yard No 343 When built

gines made at COPENHAGEN By whom made A/S BURMEISTER & WAIN Engine No 4359 When made

lers made at WALLSEND-ON-TYNE By whom made NORTH EASTERN MACHINE ENG. CO (1938) L^{td} Boiler No 3173 When made 1950

imal Horse Power $\frac{3204}{12} = 267$ Owners Port belonging to

MULTITUBULAR BOILERS ~~MAIN~~, ~~SEMI~~, OR DONKEY.

Manufacturers of Steel STEEL COMPANY OF SCOTLAND L^{td} AND COLVILLES L^{td} (Letter for Record S)

total Heating Surface of Boilers 3204 sq ft Is forced draught fitted YES Coal or Oil fired OIL FIRED.

and Description of Boilers Two SINGLE ENDED. Working Pressure 180 LBS/SQ IN

ted by hydraulic pressure to 320 LBS/SQ Date of test 14.3.50 No. of Certificate 1384 Can each boiler be worked separately YES

ea of Firegrate in each Boiler No. and Description of safety valves to each boiler 1-2 1/4" STEEL DOUBLE IMPROVED HIGH LIFT.

ea of each set of valves per boiler per rule 5.14 gms as fitted 7.94 gms Pressure to which they are adjusted Are they fitted with easing gear

case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No MAIN BOILERS.

23/ smallest distance between boilers or uptakes and bunkers or woodwork Is oil fuel carried in the double bottom under boilers

ing rods smallest distance between shell of boiler and tank top plating Is the bottom of the boiler insulated YES

shaft best internal dia. of boilers 11' 6" Length 10' 8" Shell plates: Material MILD STEEL Tensile strength 29/33 TONS/SQ IN

n bolts 15/16 Are the shell plates welded or flanged No Description of riveting: circ. seams end 3.03 inter 6.15/16

ditions 2/10 1. seams TK DOUBLE BOTTOM SEAMS Diameter of rivet holes in circ. seams 1" long. seams 1" Pitch of rivets 3.03

mark 220400 718600 Percentage of strength of circ. end seams plate 67% rivets 43.1% Percentage of strength of circ. intermediate seam plate 85.66% rivets 89.89%

marks 220500 717700 Percentage of strength of longitudinal joint plate 85.66% rivets 89.89% combined 89.11% Working pressure of shell by Rules 182 LBS/SQ IN

rk 717700 17.6.49 Thickness of butt straps outer 23/32 inner 27/32 No. and Description of Furnaces in each Boiler Two CORRUGATED DEIGHTON TYPE.

erial MILD STEEL Tensile strength 26/30 TONS/SQ IN Smallest outside diameter 3'-0 1/16"

gth of plain part top Thickness of plates crown 13/16 bottom 1/32 Description of longitudinal joint WELD.

ensions of stiffening rings on furnace or c.c. bottom NONE Working pressure of furnace by Rules 183 LBS/SQ IN

ed with plates in steam space: Material MILD STEEL Tensile strength 26/30 TONS/SQ IN Thickness 1" Pitch of stays 15" x 17"

are stays secured NOTTED IN & OUT Working pressure by Rules 180 LBS/SQ IN

special re e plates: Material front MILD STEEL Tensile strength 26/30 TONS/SQ IN Thickness 1" Working pressure front 189 LBS/SQ IN back 270 LBS/SQ IN

25/- 27/12/48 pitch of stay tubes in nests 7/4 x 10/8 Pitch across wide water spaces 14 1/2 Working pressure back 270 LBS/SQ IN

ded longer ers to combustion chamber tops: Material MILD STEEL Tensile strength 29/33 TONS/SQ IN Depth and thickness of girder

ntre 8 7/8 x 1 1/8 Length as per Rule 2'-2 1/2" Distance apart 10" No. and pitch of stays

ch EW to CC TOP Working pressure by Rules 183 LBS/SQ IN Combustion chamber plates: Material MILD STEEL

unalled le strength 26/30 TONS/SQ IN Thickness: Sides 23/32 Back 11/16 Top 23/32 Bottom 7/8

of stays to ditto: Sides 9 5/8 x 9" Back 9 3/8 x 9 3/8 Top EW to PLATE Are stays fitted with nuts or riveted over

ing pressure by Rules 187 LBS/SQ IN Front plate at bottom: Material MILD STEEL Tensile strength 26/30 TONS/SQ IN Thickness 1"

ness 1" Lower back plate: Material MILD STEEL Tensile strength 26/30 TONS/SQ IN Thickness 1"

of stays at wide water space 16" x 9 3/8" Are stays fitted with nuts or riveted over BOTH

ing pressure 208 LBS/SQ IN Main stays: Material MILD STEEL Tensile strength 28/32 TONS/SQ IN

eter At body of stay 2 3/4 No. of threads per inch 6 Area supported by each stay 17" x 15"

Over threads 2 3/4

ing pressure by Rules 188 LBS/SQ IN Screw stays: Material MILD STEEL Tensile strength 26/30 TONS/SQ IN

eter At turned off part 1 3/4 No. of threads per inch 9 Area supported by each stay 9 3/8 x 9 3/8

Over threads 1 3/4

Working pressure by Rules 206 lbs/p Are the stays drilled at the outer ends No Margin stays: Diameter 1 7/8" At turned off part 2" Over threads 2.0
No. of threads per inch 9 Area supported by each stay 12 1/16" x 9 3/8" Working pressure by Rules 208 lbs/p
Tubes: Material SD STEEL External diameter 2 1/2" Thickness 1/4" No. of threads per inch 9
Pitch of tubes 3 3/8" x 3 3/8" Working pressure by Rules 183 lbs/p Manhole compensation: Size of opening None
shell plate ✓ Section of compensating ring ✓ No. of rivets and diameter of rivet holes ✓
Outer row rivet pitch at ends ✓ Depth of flange if manhole flanged ✓ 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 ✓
Internal diameter ✓ Working pressure by Rules ✓ Thickness of crown ✓ No. and diameter of rivets made at ✓
stays ✓ Inner radius of crown ✓ Working pressure by Rules ✓ rivets made at ✓
How connected to shell ✓ Size of doubling plate under dome ✓ Diameter of rivet holes and rivets ✓
of rivets in outer row in dome connection to shell ✓

Type of Superheater None Manufacturers of ✓
Number of elements ✓ Material of tubes ✓ Internal diameter and thickness of tubes ✓
Material of headers ✓ Tensile strength ✓ Thickness ✓ Can the superheater be shut off from the boiler ✓
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 pressure ✓
tubes ✓ forgings and castings ✓ and after assembly in place ✓ Are drain 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 Yes

The foregoing is a correct description of the boiler and superheater forwarded herewith
THE NORTH EASTERN MARINE ENGINEERING CO. (1928) LTD.
Ham, Hull
Manuf. Woodwork

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.) Yes
During erection on board vessel - - - (11948) AUG. 23, 31, SEPT. 8, 13, 24, NOV. 20, DEC. 10, 24, Total No. of visits 23
(11949) FEB. 10, MAR. 8, 9, APR. 6, 11, 19, MAY 3, 6, 11, 20, 27, 30, FEB. 16, 20, MAR. 6, 11, 30

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. NEWCASTLE Report No 106144

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These two donkey boilers have been constructed under Special Survey, in accordance with the approved plan of the Society's Rules.
The materials & workmanship are good
The boilers will be installed on board at this port.

Survey Fee 267 MN £ 51 : 14 : 0 When applied for 31 MAR 1950
Travelling Expenses (if any) £ : : When received 19

Committee's Minute FRI. 4 MAY 1951

Assigned See F.E. mch. rpt.

J.A. Orde
Engineer Surveyor to Lloyd's Register of Shipping



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