

31 AUG 1956

## REPORT ON BOILERS.

No. 113668

Received at London Office

8 JAN 1957

NEWCASTLE-ON-TYNE

Writing Report 19 When handed in at Local Office 24-8-56 Port of

Survey held at Date, First Survey 22-5-56 Last Survey 23-8-56

on the M. T. "BRITISH LANCER" (Number of Visits 28) Tons {Gross Net

By whom built Yard No. When built

made at By whom made Engine No. When made

made at WALLSEND By whom made NORTH EASTERN MARINE ENG. CO. LTD. Boiler No. 3328 When made 1956

er Rule Owners British Tanker Co Ltd Port belonging to

TUBULAR BOILERS — ~~MAIN~~ ~~XXXXXX~~ ~~XXXXXX~~ ~~XXXXXX~~ DONKEY.

urers of Steel COLVILLES

ating Surface of Boilers 2 x 2031 = 4062 sq. ft. Of Superheaters

Register Book Is forced draught fitted YES Coal or Oil fired OIL

Description of Boilers TWO SINGLE ENDED Working Pressure 180 lbs. sq. in.

hydraulic pressure to 320 lbs Date of test 27/7/56 WTM. 1722 NWC Can each boiler be worked separately YES

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

each set of valves per boiler {per Rule 6.5 sq. in. Pressure to which they are adjusted 180 lb/sq. in. Are they fitted with easing gear YES

of donkey boilers, state whether steam from main boilers can enter the donkey boiler NO MAIN BOILERS

distance between boilers or uptakes and bunkers or woodwork BOILERS ON FLAT Is oil fuel carried in the double bottom under boilers

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

internal dia. of boilers 12' - 9 15/16" Length 11' - 6" Shell plates: Material MILD STEEL Tensile strength 29-33 Tons/

welded, state name of welding Firm Have all the requirements of the Rules for Class I vessels

plied with Thickness 1 1/32" Are the shell plates welded or flanged NO Description of riveting: circ. seams end D.R. LAP.

ms. T.R. DOUBLE BUTT STRAPS Diameter of rivet holes in {circ. seams 1 1/8" Pitch of rivets 7 13/16"

ge of strength of circ. end seams {plate 65.5 Percentage of strength of circ. intermediate seam {plate

ge of strength of longitudinal joint {rivets 46.7 W.P. SHELL PER RULE = 181.7 lbs. sq. in.

combined 85.6

s of butt straps {outer 13/16" No. and Description of Furnaces in each Boiler THREE DEIGHTON CORRUGATED

inner 15/16" Tensile strength 26/30 Tons. sq. in. Smallest outside diameter 36 11/16"

MILD STEEL Thickness of plates 15/32" Description of longitudinal joint WELDED

of plain part {top NONE

ms of stiffening rings on furnace or c.c. bottom

es in steam space: Material MILD STEEL Tensile strength 26-30 Tons/ Thickness 1 1/16" Pitch of stays 18" x 16"

stays secured NUTTED INSIDE AND OUTSIDE

ates: Material {front MILD STEEL Tensile strength 26-30 Tons. sq. in. Thickness 25/32"

back MILD STEEL Tensile strength 26-30 Tons. sq. in. Thickness 3"

ch of stay tubes in nests 8 5/8" Pitch across wide water spaces 13 1/4"

to combustion chamber tops: Material MILD STEEL Tensile strength 29-30 Tons. sq. in. Depth and thickness of girder

7 1/2" x 13/16" Length as per Rule 31 17/32" Distance apart 8" No. and pitch of stays

CONTINUOUS DOUBLE FILLET WELDS Combustion chamber plates: Material MILD STEEL

length 26-30 Tons. sq. in. Thickness: Sides 23/32" Back 23/32" Top 23/32" Bottom 23/32"

stays to ditto: Sides 10 1/2" x 9 1/2" Back 10 1/2" x 9 1/2" WINGS 8" CONTINUOUS SCREWED & NUTTED IN C.C. SIDES.

ate at bottom: Material MILD STEEL Tensile strength 26/30 Tons. sq. in. BACKS WELDED THROUGH PLATES.

23/32" Lower back plate: Material MILD STEEL Tensile strength 26-30 Tons. sq. in. Thickness 25/32"

stays at wide water space 13 1/4" x 9 1/2" Are stays fitted with nuts or riveted over WELDED THROUGH PLATES

ys: Material MILD STEEL Tensile strength 28-32 Tons. sq. in.

At body of stay 2 1/2" No. of threads per inch 6

Over threads 2 1/2"

ays: Material MILD STEEL Tensile strength 26/30 Tons. sq. in.

At turned off part 1 1/2" SIDES. OTHERS No. of threads per inch SIDES 9 T.P.I. OTHERS WELDED THROUGH PLATES.

Over threads 1 1/2" 15/8" - 1 1/4" - 2" PLAIN BARS.



Are the stays drilled at the outer ends..... NO..... Margin stays: Diameter { At turned off part, 1 3/4" 2" }  
No. of threads per inch..... WELDED THROUGH PLATES.....  
Tubes: Material MILD STEEL External diameter { Plain 2 1/2" Stay 2 1/2" } Thickness 10 SWG. 5/16" 1" No. of threads per inch 9"  
Pitch of tubes 3 3/8" x 3 1/2" Manhole compensation: Size of open shell plate NONE Section of compensating ring - No. of rivets and diameter of rivet holes -  
Outer row rivet pitch at ends - Depth of flange if manhole flanged 3 5/8" 3 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..... Thickness of crown..... No. stays..... Inner radius of crown.....  
How connected to shell..... Size of doubling plate under dome..... Diameter 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 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.....  
Pressure to which the safety valves are adjusted..... Hydraulic tubes..... forgings and castings..... and after assembly in place..... Are 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 NORTH EASTERN MARINE ENGINEERING COMPANY LIMITED

Dates of Survey while building { During progress of work in shops - - 1956 1941 22 28 30 Jun 57 11 12 13 15 16 19 20 21 22 26 27 28 29 Jul 23 24 26 29 30 31 Aug 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 } Are the approved plans of boiler and superheater forwarded herewith.....  
During erection on board vessel - - - 19 20 21 24 27 Aug 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 Total No. of visits 38

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 APPROVED PLAN THE REQUIREMENTS OF THE RULES OR THEIR EQUIVALENT, TO OUR SATISFACTION. THE MATERIALS AND WORKMANSHIP ARE GOOD.

THE BOILERS ARE BEING HELD AT THE BOILERMAKERS WORKS PENDING SHIPPING INSTRUCTIONS FROM THE OWNERS.

NEWCASTLE-ON-TYNE, No 114024

These boilers have been securely fixed aboard the vessel, fitted to burst (F.B. above 150 °F), the safety valves adjusted at 18 lbs/sq in, easing gear fitted and secured. Please see Newcastle Report

CONSTRUCTION..... £ 63. : 0. : 0d } Survey Fee ..... Travelling Expenses (if any) £ : : }

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

W. Mathieson & W. C. Nicholson

Engineer Surveyor to Lloyd's Register of Shipping

THURSDAY - 7 MAR 1957 T. MATHIESON &

W. C. NICHOLSON.

Committee's Minute.....

Assigned See above 114024



Lloyd's Register Foundation