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NEWCASTLE-ON-TYNE, No. 106731

Rpt. 5b.

D.O.

# REPORT ON BOILERS.

No. 18819.

6 AUG 1949

Received at London Office

Date of writing Report 26th July 49 When handed in at Local Office 4th Aug. 49 Port of MIDDLESBROUGH.

No. in Reg. Book 35288 Survey held at STOCKTON-on-TEES. Date, First Survey 25.11.48 Last Survey 22.7.49

on the M.V. LEXA MAERSK. (Number of Visits 9) Gross 5720.19 Tons Net 3270.18

Built at SUNDEKLAND By whom built BARTKAT & SONS Ltd Yard No. 327 When built 1949

Engines made at WALLSEND-ON-TYNE By whom made NORTH EASTERN MARINE ENG CO (1938) Ltd Engine No. 3163 When made 1949

Boilers made at Stockton-on-Tees. By whom made Stockton C.E. & R.B. Boiler No. 7112 When made 1949

Owners A/B D/S SVENDBERG & D/S of 1912 A/S. Port belonging to COPENHAGEN

## VERTICAL DONKEY BOILER.

Made at Stockton By whom made Stockton C.E. & R.B. Boiler No. 7112 When made 1949 Where fixed STEAMWAL SIDE.

Manufacturers of Steel South Durham Steel & Iron Co.

Total Heating Surface of Boiler 700 sq. ft. Is forced draught fitted Coal or Oil fired Oil.

No. and Description of Boilers 1 Melvin Thimble Tube Working pressure 100 lbs

Tested by hydraulic pressure to 200 lbs Date of test 26.7.49 No. of Certificate 3237

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler

Area of each set of valves per boiler per rule 9.82 Pressure to which they are adjusted 100 lbs/p. Are they fitted with easing gear Yes

State whether steam from main boilers can enter the donkey boiler Smallest distance between boiler or uptake and bunkers

or woodwork Is oil fuel carried in the double bottom under boiler Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated Largest internal dia. of boiler 8'0" Height 16'3"

Shell plates: Material Steel Tensile strength 26.30 Thickness 15/32"

Are the shell plates welded or flanged No If fusion welded, state name of welding firm

Have all the requirements of the Rules for Class I vessels been complied with Description of riveting: circ. seams end SR. Lap inter. 40-

long. seams DR, DB Dia. of rivet holes in circ. seams 15/16" Pitch of rivets 2,154 34" Percentage of strength of circ. seams plate 56.5 rivets 56.1

of Longitudinal joint plate 74.9 rivets 104.9 Thickness of butt straps outer 15/32" inner 15/32" Shell Crown: Whether complete hemisphere, dished partial

spherical, or flat Dished Material Steel Tensile strength 26.30 Thickness 27/32"

Radius 7'0" Description of Furnace: Plain, spherical, or dished crown Dished Material Steel

Tensile strength 26.30 Thickness 1" External diameter top 5'5" bottom 7'10" Length as per rule

Pitch of support stays circumferentially and vertically Are stays fitted with nuts or riveted over

Diameter of stays over thread Radius of spherical or dished furnace crown 7'0"

Thickness of Ogee Ring 1" Diameter as per rule D 8'0" a 7-10

Combustion Chamber: Material Steel Tensile strength 26.30 Thickness of top plate 21/32"

Radius if dished 4'6" Thickness of back plate Diameter if circular 5'3 I.D.

Length as per rule 6'5" Pitch of stays

Are stays fitted with nuts or riveted over Diameter of stays over thread

Tube Plates: Material front Steel back Tensile strength 26.30 Thickness 1.9/32" Mean pitch of stay tubes in nests

If comprising shell, Dia. as per rule front back Pitch in outer vertical rows Dia. of tube holes FRONT stay plain BACK stay plain

Is each alternate tube in outer vertical rows a stay tube

Girders to combustion chamber tops: Material Tensile strength

Depth and thickness of girder at centre Length as per rule

Distance apart No. and pitch of stays in each



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Crown stays: Material                      Tensile strength                      Diameter                      { at body of stay,                      or over threads                     

No. of threads per inch                      Screw stays: Material                      Tensile strength                     

Diameter                      { at turned off part,                      or over threads                      No. of threads per inch                      Are the stays drilled at the outer ends                     

Thimble

Tubes: Material Hot rolled weldless steel External diameter                      { plain                      stay                      Thickness 8 W.G. to 6 W.G.

No. of thraeds per inch                      Pitch of tubes 6.5" x 7 1/2"

Manhole Compensation: Size of opening in shell plate 16 x 12" Section of compensating ring                      No. of rivets and diameter

of rivet holes                      Outer row rivet pitch at ends                      Depth of flange if manhole flanged                     

Uptake: External diameter 2' 10" Thickness of uptake plate 19/32"

Cross Tubes: No.                      External diameters                      Thickness of plates                     

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with Yes

The foregoing is a correct description,

Manufacturer.

Dates of Survey                      { During progress of work in shops Nov. 35, Dec. 30, Jan. 17, Feb. 19, Mar. 17 Is the approved plan of boiler forwarded herewith                      (If not state date of approval.)  
while building                      { During erection on board vessel July 15, 20, 21, 22 Total No. of visits 9

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.)

This boiler has been constructed under special survey and in accordance with the Rule Requirements and approved plan and the materials and workmanship are good. Upon completion this boiler was hydraulically tested to 200 lbs per sq. inch and found satisfactory.

The boiler is being despatched to North Eastern Marine, Wallsend, for the North Eastern Marine Contract No. 3163

The boiler has been satisfactorily installed on board examined under steam the safety valves adjusted to the approved pressure.

J. A. Oak  
Newcastle-a-Tyne  
1<sup>st</sup> March 1949

Survey Fee £ 10 : : When applied for, 5.8.19  
Travelling Expenses (if any) £ : : When received, 19

L. Gorman Stuart  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute                       
Assigned In view see J.S. Rpt



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