

Rpt. 5b.

RECEIVED

REPORT ON BOILERS.

No. 18850.

23 SEP 1949

Received at London Office 21 SEP 1949

Date of Report 15th Sep. 49. When handed in at Local Office 19th Sept. 49. Port of Middlesbrough.

No. in Survey held at Stockton-on-Tees. Date, First Survey 23rd February, Last Survey 13th Sept. 19 49.

Reg. Book on the M.V. NELLY MAERSK (Number of Visits 6.) Gross 8223.08 Tons Net 4805.36

Built at BLYTH By whom built BLYTH D.D. & S.B. Co. Yard No. 342 When built 1950

Engines made at TURIN By whom made SOC. AN. FIAT STAB. GRANDI MOTORI Engine No. 2973 When made 1942

Boilers made at Stockton-on-Tees. By whom made Stockton Chemical Engineers & Riley Boilers Ltd. Boiler No. 7128 When made 8/1949

Owners A.P. MØLLER Port belonging to FREDERICA

VERTICAL DONKEY BOILER.

Made at Stockton By whom made Stockton CE & RB. Ltd Boiler No. 7128 When made 8/49 Where fixed

Manufacturers of Steel Appleby Frodingham Steel Co.

Total Heating Surface of Boiler 1900 Is forced draught fitted Coal or Oil fired Ex. Gas

No. and Description of Boilers 1 Swirlyflo Waste Heat Boiler Working pressure 180

Tested by hydraulic pressure to 320 Date of test 13.9.49 No. of Certificate 7283

Area of Firegrate in each Boiler - No. and Description of safety valves to each boiler 1 - 2" G.I. double

Area of each set of valves per boiler } per rule. } Pressure to which they are adjusted 180 lbs/sq. in. Are they fitted with easing gear

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 61 1/2" Height 9' 0"

Shell plates: Material Steel Tensile strength 88-92 Thickness 5/8"

Are the shell plates welded or flanged - 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 DBL. } inter.

long. seams D.B. D.B.'s Dia. of rivet holes in { circ. seams 15/16" } Pitch of rivets { 2.945" } Percentage of strength of circ. seams { plate 68.1 } rivets 61.6

of Longitudinal joint { plate 75.4 } rivets 89.2 Thickness of butt straps { outer 5/8" } inner 5/8" Shell Crown: Whether complete hemisphere, dished partial

spherical, or flat Material Tensile strength Thickness

Radius Description of Furnace: Plain, spherical, or dished crown None Material

Tensile strength Thickness External diameter { top } bottom 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

Thickness of Ogee Ring Diameter as per rule { D } a

Combustion Chamber: Material None Tensile strength Thickness of top plate

Radius if dished Thickness of back plate Diameter if circular

Length as per rule 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 { 3/8" } Mean pitch of stay tubes in nests 8 1/2"

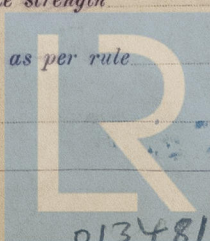
comprising shell, Dia. as per rule { front } back Pitch in outer vertical rows { Dia. of tube holes FRONT { stay } plain BACK { stay } plain

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 _____

Tubes: Material Hot Rolled Weldless Steel External diameter { plain 2" stay 2" Thickness { 9 S.W.G. 1/4"

No. of threads per inch Welded Pitch of tubes 2.7/8"

Manhole Compensation: Size of opening in shell plate 16 x 12 Section of compensating ring 4 1/2" x 7/8" No. of rivets and diameter _____

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

Uptake: External diameter _____ Thickness of uptake plate _____

Cross Tubes: No. _____ External diameters { _____ Thickness of plates _____

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

per and on behalf of
The foregoing is a correct description,
G. M. Riley Manufacturer.
DIRECTOR

1949.
Dates of Survey { During progress of work in shops - - Feb. 23, Apr. 5 May 17, July 15, 21. Is the approved plan of boiler forwarded herewith Yes.
while building { During erection on board vessel - - Sept. 13. (If not state date of approval.)
Total No. of visits 6

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 approved plans and RINA requirements and the material and workmanship are good.

On completion the boiler was hydraulically tested to 300 lbs per sq. in. and found satisfactory.

These boilers are being forwarded to Messrs. Spenser Boilers Ltd., London for their Contract J.396.

SURVEY OF MACHINERY.
NEWCASTLE-ON-TYNE

This boiler has been satisfactorily fitted on board the
M.V. NELLY MAERSK BLYTH YARD N°342

Thomas D. Pitts
SURVEYOR TO LLOYD'S REGISTER.
NEWCASTLE-ON-TYNE

Survey Fee ... £ 10 : - : When applied for, 20.9. 19 49.
Travelling Expenses (if any) £ : : When received, 19 _____

J. C. Smith

Committee's Minute FRI. 21 APR 1950
Assigned See F.E. nelly, rpt.