

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 MIDDLEBROUGH

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

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

Built at BLYTH By whom built BLYTH O.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. MOLLER Port belonging to FREDERICIA

VERTICAL W.H. 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 as fitted 6.28 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 61.5" Length 91.0" Height 91.0"

Shell plates: Material Steel Tensile strength 58-52 Thickness 5/8"

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 DBL inter

long. seams D.B. D.B.'s Dia. of rivet holes in circ. seams 15/16" long. seams 15/16" Pitch of rivets 2.945" Percentage of strength of circ. seams plate 62.1 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 -

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" Mean pitch of stay tubes in nests 8 1/2"

comprising shell, Dia. as per rule front back Pitch in outer vertical rows stay plain 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 -



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

Dates of Survey while building { During progress of work in shops - - } 1949. Feb. 23, Apr. 5, May 17, July 15, 21. Is the approved plan of boiler forwarded herewith (If not state date of approval.) Yes.

{ During erection on board vessel - - } Sept. 13. 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 rules 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. Spaxton 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 J. Pitts
 SURVEYOR TO LLOYD'S REGISTER.
 NEWCASTLE-ON-TYNE

Survey Fee ... £ 12 : - : 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. McKay, spst.