

RECEIVED

Rpt. 5a.
7 MAY 1949

N D.O.

NEWCASTLE-ON-TYNE, No. 107110.

REPORT ON BOILERS.

No. 106144

Received at London Office.

17 MAY 1949

Date of writing Report 4-5-49

When handed in at Local Office 14 MAY 1949

Port of

NEWCASTLE-ON-TYNE

No. in Reg. Book. Survey held at Wallsend

Date, First Survey 29/8/48

Last Survey 6/5/49

19

on the M.V. NELLY MAERSK

(Number of Visits 20)

Tons

Gross 8223.08

Net 4805.36

Master Built at Blyth

By whom built Blyth D.D.I.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 Wallsend

By whom made N.E. Mar. Eng Co (1938) Ltd

Boilers No. 3172 When made 1949

Nominal Horse Power $\frac{3204}{12} = 267$
7 Blns

Owners A. P. MOLLER

Port belonging to FREDERICA

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel The Steel Coy. of Scotland & Colvilles Ltd, Glasgow

(Letter for Record S)

Total Heating Surface of Boilers 3204 sq ft

Is forced draught fitted Yes

Coal or Oil fired oil fired

No. and Description of Boilers 2 Single Ended

Working Pressure 180 lbs/sq in

Tested by hydraulic pressure to 320 lb.

Date of test 25-3-49

P. No. 1331

S. No. 1336

No. of Certificate Can each boiler be worked separately Yes

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler Two of 2 1/2" type Super High Lift type

Area of each set of valves per boiler per Rule 5.14 sq in

as fitted 7.94 sq in

Pressure to which they are adjusted 180 lbs/sq in

Are they fitted with easing gear Yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No main Boiler

Smallest distance between boilers or uptakes and bunkers or woodwork 3-1 1/2"

Is oil fuel carried in the double bottom under boilers No (in flat)

Smallest distance between shell of boiler and tank top plating 2-5"

Is the bottom of the boiler insulated Yes

Largest internal dia. of boilers 11-6"

Length 10-8"

Shell plates: Material M. Stl

Tensile strength 29-33 tons

Thickness 15/16"

Are the shell plates welded or flanged No

Description of riveting: circ. seams

end D.R

long. seams T.R. 80 lb butt straps

Diameter of rivet holes in

circ. seams 1"

long. seams 1"

Pitch of rivets

3-03"

Percentage of strength of circ. end seams

plate 67.0

rivets 43.6

Percentage of strength of circ. intermediate seam

plate

Percentage of strength of longitudinal joint

plate 85.66

rivets 89.8

Working pressure of shell by Rules 182 lb.

Thickness of butt straps

outer 23/32"

inner 27/32"

No. and Description of Furnaces in each Boiler 2 Cf. Deighton type

Material M. Stl

Tensile strength 26-30 T.

Smallest outside diameter 3'-0 1/16"

Length of plain part

top

bottom

Thickness of plates

crown 15/32"

bottom

Description of longitudinal joint weld

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

Working pressure of furnace by Rules 183 lb.

End plates in steam space: Material M. Stl

Tensile strength 26-30 T.

Thickness 1"

Pitch of stays 15"x17"

How are stays secured Nuts in front

Working pressure by Rules 180 lb.

Tube plates: Material

front M. Stl

back

Tensile strength 26 to 30 tons

Thickness

front 1"

back 25/32"

Lean pitch of stay tubes in nests 7 1/4" x 10 7/8"

Pitch across wide water spaces 14 1/2"

Working pressure

front 189 lb

back 270 lb

Girders to combustion chamber tops: Material M. Stl

Tensile strength 29-30 T.

Depth and thickness of girder

at centre 8 7/8" x 1 1/8"

Length as per Rule 2'-2 1/2"

Distance apart 10"

No. and pitch of stays

in each Girders continuous

3 welded to c.c. top

Working pressure by Rules 183 lb.

Combustion chamber plates: Material M. Stl

Tensile strength 26-30 T.

Thickness: Sides 23/32"

Back 11/16"

Top 23/32"

Bottom 7/8"

Pitch of stays to ditto: Sides 9 7/8" x 9"

Back 9 3/8" x 9 3/8"

Top 9 3/8" x 9 3/8"

Bottom 9 3/8" x 9 3/8"

Are stays fitted with nuts or riveted over With nuts

Working pressure by Rules 187 lb (min at back)

208 lb at sides

Front plate at bottom: Material M. Stl

Tensile strength 26-30 T.

Thickness 1"

Lower back plate: Material M. Stl

Tensile strength 26-30 T.

Thickness 1"

Pitch of stays at wide water space 16 x 9 3/8"

Are stays fitted with nuts or riveted over With NUTS in place

Working pressure 208 lb

Main stays: Material M. Stl

Tensile strength 28-32 T.

Diameter

At body of stay 2 3/8"

Over threads 2 3/4"

No. of threads per inch 6

Area supported by each stay 17" x 15"

Working pressure by Rules 188 lb

Screw stays: Material M. Stl

Tensile strength 26-30 T.

Diameter

At turned off part 1 3/4"

Over threads

No. of threads per inch 9

Area supported by each stay 9 7/8" x 9 3/8"

Continues over.

Lloyd's Register

Foundation

013481.013488 0128

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

THE NORTH EASTERN MARINE ENGINEERING CO. (1936) LTD.
The foregoing is a correct description,
Gus Lubbock Director
Manufactured by

Dates of Survey while building

{	During progress of work in shops - -	{ 1948 AUG. 23, 25, 31, SEPT. 8, 13, 24, OCT. 8, 10, 24, 1949 MAY 5, 19, 26, FEB. 4, 10, 16, 21, 24, MAR. 3, 7, 9, 14, 21, APR. 6, 8, 11, 13, 19, 26, MAY 6	{ Are the approved plans of boiler and superheater forwarded herewith <u>16-10-49</u> (If not state date of approval.) <i>Plans Retained for duplicate to V.I.</i>
	During erection on board vessel - - -		

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.).....

The Boilers are to be sent to Blyth D.D. & S.B. yard to be fitted on board.

Thomas J. Potts
SURVEYOR TO LLOYD'S REGISTER.
NEWCASTLE-ON-TYNE.

Awatto
Engineer Surveyor to Lloyd's Register of Shipping.

Assigned Su E. Kromley spt.