t. 5a.

REPORT ON BOILERS.

No. 19475.

Received at London Office.....

e of writing Report 2nd Dec. 19 52. When handed in at Local Office 12th Dec. 19 52. Port of Gothenburg

o. in . Book. Survey held at Gothenburg Date, First Survey 29th August, 1952 Last Survey 28th November, 19 52.

)803 on the Motor Tanker "K A R E N M A E R S K" (Number of Visits 10.) Tons Gross 11756 Net 6852

ster --- Built at Gothenburg By whom built Eriksbergs Mek. V.AB. Yard No. 429 When built 1952

gines made at Gothenburg By whom made Eriksbergs Mek. Verkstads Aktiebolag, Engine No. 566 When made 1952

lers made at Gothenburg Karlskrona By whom made Eriksbergs Mek. Verkstads Aktiebolag, Marinverkstäderna, Örlogsvarvet Boiler No. 910-11 107-08 When made 1952

minal Horse Power 451 Owners A/S D/S Svendborg & D/S af 1912 A/S Port belonging to Copenhagen

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ULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

nufacturers of Steel Ferrostal AG. Essen. (Letter for Record S)

tal Heating Surface of Boilers 2 x 251,7 M^2. = 5412 sq. feet ✓ Is forced draught fitted Yes ✓ Coal or Oil fired Oil ✓

. and Description of Boilers 2 multitubular ✓ Working Pressure 180 lbs/in^2.

sted by hydraulic pressure to 320 lbs/in^2. Date of test 6.9.52 No. of Certificates 632-633 Can each boiler be worked separately Yes

ea of Firegrate in each Boiler --- No. and Description of safety valves to each boiler 1 double spring loaded

ea of each set of valves per boiler { per Rule 11130 / as fitted 15700 ✓ } Pressure to which they are adjusted 180 lbs/in^2 ✓ Are they fitted with easing gear Yes ✓

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

allest distance between boilers or uptakes and bunkers or woodwork 700 mm. from AP bulkhead Is oil fuel carried in the double bottom under boilers ---

allest distance between shell of boiler and tank top plating Boilers placed on a platform aft in engine room. Is the bottom of the boiler insulated Yes

rgest internal dia. of boilers Length Shell plates: Material Tensile strength

ickness Are the shell plates welded or flanged Description of riveting: circ. seams { end / inter

g. seams Diameter of rivet holes in { circ. seams / long. seams } Pitch of rivets { / }

rcentage of strength of circ. end seams { plate / rivets } Percentage of strength of circ. intermediate seam { plate / rivets }

rcentage of strength of longitudinal joint { plate / rivets / combined } Working pressure of shell by Rules

ickness of butt straps { outer / inner } No. and Description of Furnaces in each Boiler

terial Tensile strength Smallest outside diameter

gth of plain part { top / bottom } Thickness of plates { crown / bottom } Description of longitudinal joint

ensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules

d plates in steam space: Material Tensile strength Thickness Pitch of stays

w are stays secured Working pressure by Rules

be plates: Material { front / back } Tensile strength { / } Thickness { / }

n pitch of stay tubes in nests Pitch across wide water spaces Working pressure { front / back }

ders to combustion chamber tops: Material Tensile strength Depth and thickness of girder

entre Length as per Rule Distance apart No. and pitch of stays

ach Working pressure by Rules Combustion chamber plates: Material

sile strength Thickness: Sides Back Top Bottom

h of stays to ditto: Sides Back Top Are stays fitted with nuts or riveted over

king pressure by Rules Front plate at bottom: Material Tensile strength

kness Lower back plate: Material Tensile strength Thickness

h of stays at wide water space Are stays fitted with nuts or riveted over

king pressure Main stays: Material Tensile strength

eter { At body of stay / Over threads } No. of threads per inch Area supported by each stay

ing pressure by Rules Screw stays: Material Tensile strength

eter { At turned off part, / Over threads } No. of threads per inch Area supported by each stay

OCW 5-1-53

Working pressure by Rules --- *Are the stays drilled at the outer ends* --- *Margin stays: Diameter* (*At turned off part, or Over threads*) --- / ---

No. of threads per inch --- *Area supported by each stay* --- *Working pressure by Rules* ---

Tubes: *Material* S.M. Steel *External diameter* (*Plain*) 63 mm. (*Stay*) 63 mm. *Thickness* 3.5 mm. / 8.0 mm. *No. of threads per inch* 9.

Pitch of tubes ...... *Working pressure by Rules* ...... **Manhole compensation:** *Size of opening in*

shell plate ...... *Section of compensating ring* ...... *No. of rivets and diameter of rivet holes* ......

Outer row rivet pitch at ends ...... *Depth of flange if manhole flanged* ...... **Steam Dome:** *Material* ......

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 – *Working pressure by Rules* ...... *Thickness of crown* ...... *No. and diameter of*

stays – *Inner radius of crown* ...... *Working pressure by Rules* ......

How connected to shell ...... *Size of doubling plate under dome* ...... *Diameter of rivet holes and p...*

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 be shut off ...*

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* ...... *Working pressure as ...*

Rules ...... *Pressure to which the safety valves are adjusted* ...... *Hydraulic test press...*

tubes ...... *forgings and castings* ...... *and after assembly in place* ...... *Are drain cock...*

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 foregoing is a correct description,

ERIKSBERGS MEK. VERKSTADS A.B.

[signature] *Manufacturers*

Dates of Survey while building			
During progress of work in shops	29.8.1952 – 22.10.1952	*Are the approved plans of boiler* ~~xxxxxxxxxx~~ *forwarded herewith* (If not state date of approval.)	9.6.1949.
During erection on board vessel	31.10.1952 – 28.11.1952.	*Total No. of visits*	10.

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 Donkey Boilers have been built partly by Marinverkstäderna, Örlogsvarvet, Karlskrona, as per Malmö First Entry Report No. 3134 and have been completed at this port. The Donkey Boilers have been stress-relieved, calibrated & tested by hydraulic pressure to 320 lbs/in^2. with satisfactory results.

These donkey boilers have been securely fitted in the vessel under my inspection and to my satisfaction and the safety valves have been adjusted under steam to 180 lbs/in^2.

The boilers have been marked:

Nos. 632-633
LLOYD'S TEST 22.5 Kgs.
WP 12.7 Kgs.
G U. 6.9.52.
EMV Nos.910-911.

Certificates in respect of the tubes are attached.

Survey Fee ... ... Kr. 350:00: When applied for, 12th Dec. 19 52.

Travelling Expenses (if any) £ --- : --- : -- When received ---------- 19 --

[signature]

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute FRI 9 JAN 1953

Assigned See F.E. mchy rpt.