

# REPORT ON BOILERS.

No. 18761.

Received at London Office 30 JAN 1952

of writing Report 17th Jan. 1952 When handed in at Local Office 22nd Jan. 1952 Port of Gothenburg

Survey held at Gothenburg Date, First Survey 17th Nov. 1951 Last Survey 15th Jan. 1952

on the M.T. KAREN. MAERSK (Number of Visits 11.) Tons Gross 11750 Net ---

at Gothenburg By whom built Eriksbergs Mek. Verkstads AB Yard No. 429 When built 1952

nes made at Gothenburg By whom made Eriksbergs Mek. Verkstads AB Engine No. --- When made 1952

gas pilers made at Gothenburg By whom made AB Lindholmens Varv Boiler No. 2971 When made 1952

ers. A.P. Möller Port belonging to Copenhagen

ste gas economiser  
~~WATER TUBE BOILER~~

at Gothenburg By whom made AB Lindholmens Varv Boiler No. 2971 When made 1952 Where fixed ---

ufacturers of Steel Domnarfvets Järnverks AB

al Heating Surface of Boiler 133 m<sup>2</sup> Is forced draught fitted --- Coal or Oil fired Waste gas

and Description of Boilers One "Swirlyflo" waste gas economiser (Spanner) Working Pressure 180 lbs.

ed by hydraulic pressure to 320 lbs/inch<sup>2</sup> Date of test 15/1 1952 No. of Certificate 602

a of fire grate in each Boiler --- No. and description of safety valves to each boiler ---

of each set of valves per boiler { per Rule --- as fitted --- Pressure to which they are adjusted --- Are they fitted with easing gear ---

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

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 1676 mm. Height 2438 mm.

l plates: Material SM Steel Tensile strength 44.6 kg/mm<sup>2</sup> Thickness 16 mm.

the shell plates welded ~~or fused~~ Yes If fusion welded, state name of welding firm AB Lindholmens Varv, Gothenburg

all the requirements of the Rules for Class I vessels been complied with Yes Description of riveting: circ. seams { end --- inter ---

seams E.W. Dia. of rivet holes in { circ. seams --- long. seams --- Pitch of rivets { --- Percentage of strength of circ. seams { plate --- rivets ---

ongitudinal joint { plate --- rivets --- combined --- Thickness of butt straps { outer --- inner --- Shell Crown: Whether complete hemisphere, dished partial

rical, or flat Material Tensile strength Thickness

Description of Furnace: Plain, spherical, or dished crown Material

ve strength Thickness External diameter { top --- bottom --- Length as per Rule

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

eter of stays over thread Radius of spherical or dished furnace crown

ness of Ogee Ring Diameter as per Rule { D --- d ---

mbustion Chamber: Material Tensile strength Thickness of top plate

us if dished Thickness of back plate Diameter if circular

th as per Rule Pitch of stays

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

e Plates: Material { top SM steel Tensile strength { 44.7-47.0 kg/mm<sup>2</sup> Thickness { 25.5 mm. Mean pitch of stay tubes in nests 294 mm.

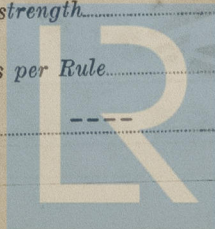
omprising shell, dia. as per Rule { front --- back --- Pitch in outer vertical rows { --- Dia. of tube holes FRONT { stay --- plain --- BACK { stay --- plain ---

ch alternate tube in outer vertical rows a stay tube ---

ers to Combustion Chamber Tops: Material Tensile strength

h and thickness of girder at centre Length as per Rule

nce 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 SM steel Swirlyflo 2" External diameter { 2" Thickness { 3.25 mm  
9 1/2 mm  
No. of threads per inch E.W. Pitch of tubes 73 mm.

Manhole Compensation: Size of opening in shell plate 405 x 305 mm. Section of compensating ring 4864 mm<sup>2</sup> No. of rivets and diam. of  
of rivet holes E.W. 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 Yes

The foregoing is a correct description,  
AKTIEBOLAGET LINDHOLMENS VARV  
ÅNGPANNÅVDELNINGEN  
Manufactured by

Dates of Survey { During progress of work in shops - - 17/11 1951 - 15/1 1952 Is the approved plan of boiler forwarded herewith 11/9 1951  
while building { During erection on board vessel - - - - -  
(If not state date of approval.)  
Total No. of visits 11

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 waste gas economiser has been built under Special Survey in accordance with the Rules for Welded Pressure Vessels Class I and the approved plan. The workmanship is good. All welded parts of the economiser have been stressrelieved in accordance with the Rules. The material fulfils the requirements of the Rules. Certificates in respect of material are attached. Chalmers' certificate of routine tests of welding carried out in my presence and plan showing position and number of X-ray films on which it is indicated the category in which each film was placed by Tekniska Röntgencentralen are attached. Macro tests have been carried out at the works of Messrs. AB Lindholmens Varv with satisfactory results. The economiser has been marked:

No. 602  
Lloyd's test 320 lbs.  
WP 180 lbs  
SJ 15.1.52

Survey Fee ... Kr. 180:-- When applied for 22nd Jan. 19 52.  
Travelling Expenses (if any) £ : -- : When received -- 19 --

FRI 9 JAN 1953

Date  
Committee's Minute  
See F.E. Mchly rpt. 2nd 19475

Engineer Surveyor to Lloyd's Register of Shipping.



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