

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. KABEN. MAERSK** (Number of Visits 11.) Gross 11750 Tons Net ---

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

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

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

Agents A.P. Möller Port belonging to Copenhagen

Waste gas economiser
~~Special Boiler~~

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

Manufacturers of Steel Domnarfvets Järnverks AB

Heating Surface of Boiler 133 m² Is forced draught fitted --- Coal or Oil fired Waste gas

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

Tested by hydraulic pressure to 320 lbs/inch² Date of test 15/1 1952 No. of Certificate 602

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

Pressure 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.

Shell plates: Material SM Steel Tensile strength 44.6 kg/mm² Thickness 16 mm.

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

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

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

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

Circular, or flat Material Tensile strength Thickness

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

Strength of Ogee Ring Thickness External diameter { top --- bottom --- Length as per Rule

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 --- d ---

Combustion Chamber: Material Tensile strength Thickness of top plate

Thickness of back plate Diameter if circular

Pitch of stays

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

Shell Plates: Material { top SM steel bottom SM steel Tensile strength { 44.7-47.0 kg/mm² Thickness { 25.5 mm. Mean pitch of stay tubes in nests 294 mm.

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

Does each alternate tube in outer vertical rows a stay tube ---

Plates to Combustion Chamber Tops: Material Tensile strength

Thickness 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 SM steel Swirlyflo External diameter { 2" 3.25 mm
 Thickness { 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 mm² 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
 ÅNGPANNEAVDELNINGEN
 Manufacturer

Åke Jansson

Dates of Survey while building { During progress of work in shops - - 17/11 1951 - 15/1 1952
 During erection on board vessel - - - - -
 Is the approved plan of boiler forwarded herewith 11/9 1951
 (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

Sten Johnson
 Engineer Surveyor to Lloyd's Register of Shipping.

Date
 Committee's Minute *See F.E. Mchly rpt. Sep 19475*

