

REPORT ON BOILERS.

No. 22962.

21 JAN 1957

Received at London Office.....

Writing Report 14/1 1957. When handed in at Local Office 18/1 1957. Port of GOTHENBURG.

Survey held at GOTHENBURG. Date, First Survey 10/11-1956. Last Survey 12/1 1957.

on the..... (Number of Visits 24.) Tons { Gross 13.200
Net.....

Malmö. By whom built Kockums Mek. Verkstads A.-B. Yard No. 394 When built.....

made at Malmö. By whom made Kockums Mek. Verkstads A.-B. Engine No. When made.....

made at Gothenburg. By whom made A.-B. Lindholmens Varv Boiler No 3210/11 When made 1956-7.

per Rule --- Owners Rederi A.-B. Clipper Port belonging to Malmö.

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Mannesmann Hüttenwerke AG.; A.-B. Storfors Rörverk; A.-B. Motala Verkstad.

Heating Surface of Boilers 2x2710 = 5420 sq.ft. 5423 Of Superheaters ---

or Register Book --- Is forced draught fitted Yes. Coal or Oil fired Oil fired.

and Description of Boilers 2 single - ended multitubular, Scotch Working Pressure 180 lbs/sq".

by hydraulic pressure to 320 lbs/sq" Date of test 31/12-56. No. of Certificate 758 Can each boiler be worked separately ---

Firegrate in each Boiler --- No. and Description of safety valves to each boiler ---

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

of donkey boilers, state whether steam from main boilers can enter the donkey boiler ---

distance between boilers or uptakes and bunkers or woodwork --- Is oil fuel carried in the double bottom under boilers ---

distance between boilers or uptakes and bunkers or woodwork --- Is the bottom of the boiler insulated ---

internal dia. of boilers 4200 mm. Length 3520 mm. Shell plates: Material S.M. Steel Tensile strength 44-50 kg/mm².

in welded, state name of welding Firm A.-B. Lindholmens Varv Have all the requirements of the Rules for Class I vessels ---

plied with Yes. Thickness 28.5 mm. Are the shell plates welded or flanged EW. Description of ~~circ. seams~~ circ. seams { end EW.
inter ---

ms EW. Diameter of rivet holes in { circ. seams ---
long. seams --- Pitch of rivets { ---

age of strength of circ. end seams { plate ---
rivets --- Percentage of strength of circ. intermediate seam { plate ---
rivets ---

the age of strength of longitudinal joint { plate ---
rivets ---
combined ---

ss of butt straps { outer ---
inner --- No. and Description of Furnaces in each Boiler 3 Morison corrugated.

S.M. Steel Tensile strength 41-47 kg/mm² Smallest outside diameter 1026 mm.

of plain part { top 150 mm.
bottom 150 mm. Thickness of plates 13 mm. Description of longitudinal joint EW.

ons of stiffening rings on furnace or c.t. bottom ---

ites in steam space: Material S.M. Steel Tensile strength 41-47 kg/mm² Thickness 25 mm. Pitch of stays 535x410 mm.

stays secured EW. with outside washers.

ates: Material { front S.M. Steel Tensile strength { 41-47 kg/mm²
back S.M. Steel 41-47 kg/mm² Thickness { 25 mm.
21 mm.

itch of stay tubes in nests 271 mm. Pitch across wide water spaces 350 mm.

to combustion chamber tops: Material S.M. Steel Tensile strength 44-50 kg/mm² Depth and thickness of girder ---

200x28,5 mm. Length as per Rule 812 mm. Distance apart 200 mm. No. and pitch of stays ---

Cont. EW. Combustion chamber plates: Material S.M. Steel.

trench 41-47 kg/mm² Thickness: Sides 17 mm. Back 17 mm. Top 17 mm. Bottom 17 mm.

stays to ditto: Sides 165x215 mm. Back 190x184 mm. Top 200xC.E.W. Are stays fitted with nuts or riveted over EW.

ate at bottom: Material S.M. Steel Tensile strength 41-47 kg/mm².

s 25 mm. Lower back plate: Material S.M. Steel Tensile strength 41-47 kg/mm² Thickness 25 mm.

stays at wide water space 350 mm. Are stays fitted with nuts or riveted over EW.

ys: Material S.M. Steel. Tensile strength 44-50 kg/mm².

70 mm. No. of threads per inch EW.

ays: Material S.M. Steel. Tensile strength 41-47 kg/mm².

40 & 47 mm. No. of threads per inch EW.

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Are the stays drilled at the outer ends Yes. Margin stays: Diameter ~~40 mm.~~ 40 mm. 4 off 47

No. of threads per inch EW.

Tubes: Material S.M. Steel External diameter { Plain 63.5 mm. Stay 63.5 mm. Thickness { 3.65 mm. 9 mm. No. of threads per inch 9.

Pitch of tubes 92 x 87 mm. Manhole compensation: Size of shell plate 477 x 377 mm. Section of compensating ring 9234 mm² 162 x 28.5 No. of rivets and diameter of rivet holes EW.

Outer row rivet pitch at ends --- Depth of flange if manhole flanged --- Steam Dome: Material S.M. Steel

Tensile strength 41-47 kg/mm² Thickness of shell 15 mm. Description of longitudinal joint EW.

Diameter of rivet holes E.W. Pitch of rivets --- Percentage of strength of joint { Plate --- Rivets ---

Internal diameter 820 mm. Thickness of crown 15 mm. No. and diameter of stays None. Inner radius of crown 680 mm.

How connected to shell EW. Size of doubling plate under dome 20 x 160 mm. Diameter of rivet holes

of rivets in outer row in dome connection to shell EW.

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 from the boiler

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

Pressure to which the safety valves are adjusted Hydraulic test

tubes forgings and castings and after assembly in place Are drawn

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, AKTIEBOLAGET LINDHOLMENS VARV

Dates of Survey { During progress of work in shops - - 10/11-1956 - 12/1-1957. Are the approved plans of boiler and superheater forwarded herewith 29/ (If not state date of approval.)

building { During erection on board vessel - - - Total No. of visits 24.

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 under Special Survey in accordance with the Rules for Welded Pressure Vessels Class I and the approved plans.

The workmanship is good.

All welded parts of the boilers have been stress-relieved in accordance with the Rules.

The material fulfills the requirements of the Rules. Test sheets attached.

Routine tests of welding have been carried out with satisfactory results. Plans showing the position number of X-ray films and on which it is indicated the category in which each film was placed by Tekniska Röntgencentralen are attached.

The Donkey Boilers have been marked:-

NO. 758 GOT.	NO. 760 GOT.
LLOYD'S TEST 320 lbs.	LLOYD'S TEST 320 lbs.
WP. 180 lbs.	WP. 180 lbs.
SJ. 31.12.56	SJ. 12.1.57.
LV. No. 3210	LV. No. 3211

Survey Fee ... Kr. : 1.400:- } When applied for 18/1 1957.

Travelling Expenses (if any) £ : : } When received 19.

TUESDAY - 4 MAR 1958

Committee's Minute

Assigned

See Rpt. 1.

Engineer Surveyor to Lloyd's Register of Shipping



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