

# REPORT ON WATER TUBE BOILERS.

Received at London Office **28 DEC 1953**

of writing Report 17/12 1953. When handed in at Local Office 22/12 1953. Port of M A L M Ö.  
 o. in Survey held at M A L M Ö. Date, First Survey 6/3-1953 Last Survey 17/12 1953.  
 r. Book. (Number of Visits 31)  
 53s on the Single Screw t/t "S A X O N S K Y" Liberian-Tons { Gross 12.862  
 Net 7.945  
 lt at Malmö. By whom built Kockums Mek. Verkst. A.-B. Yard No. 360 When built 1953.  
 ines made at Stockholm. By whom made A.-B. De-Lavals Ångturbin Engine No. 102 When made 1953.  
 ers made at Malmö. By whom made Kockums Mek. Verkst. A.-B. Boiler No. 1138 When made 1953.  
 inal Horse Power 1620 Owners Oriental Tanker Corp. S.A. Port belonging to Monrovia.

## WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel

Date of Approval of plan 28th January, 1952.

Boilers 2 Foster Wheeler "D" Working Pressure 490 lbs. Tested by Hydraulic Pressure to 785 lbs. Date of Test 4.9.53. No. and Description of Type

of Certificate 151 & 152 Can each boiler be worked separately Yes. Total Heating Surface of Boilers 14294 sq. feet excl. superheaters. 12841 TOTAL

forced draught fitted Yes. Area of Fire Grate (coal) in each Boiler ---

and type of burners (oil) in each boiler 3 Todd Oil Burners Ltd. Type FD Hex-Press R.W. No. and description of safety valves on boiler 2 - 2 1/2 Crossby Steam Gage & Valve Corp. Area of each set of valves per boiler { per rule --- as fitted 9.8 sq. inch. Pressure to which they

adjusted 495 lbs. Are they fitted with casing gear Yes. In case of donkey boilers state whether steam from main boilers can enter donkey boiler No D.B. Smallest distance between boilers or uptakes and bunkers or woodwork --- Height of boiler 22.8'

th and length 18.6' x 12.9' Steam Drums:—Number in each boiler --- Inside diameter ---

ckness of plates --- Range of tensile strength --- Are drum shell plates welded

anged --- If fusion welded, state name of welding firm --- Have all the requirements of the Rules

Class I vessels been complied with --- Description of riveting:—Circ. seams --- long. seams ---

meter of rivet holes in long. seams --- Pitch of rivets --- Thickness of straps --- Percentage strength of

g. joint:—Plate --- Rivet --- Diameter of tube holes in drum --- Pitch of tube holes ---

centage strength of shell in way of tubes --- Steam Drum Heads or Ends:—Range of tensile strength ---

ckness of plates --- Radius or how stayed --- Size of manhole or handhole --- Water Drums:—Number

each boiler --- Inside diameter --- Thickness of plates --- Range of tensile strength --- Are drum shell plates

ded or flanged --- If fusion welded, state name of welding firm --- Have all the requirements of the Rules

Class I vessels been complied with --- Description of riveting:—Circ. seams --- long. seams ---

meter of rivet holes in long. seams --- Pitch of rivets --- Thickness of straps --- Percentage strength of

centage strength of long. joint:—Plate --- Rivet --- Diameter of tube holes in drum --- Pitch of tube holes ---

centage strength of drum shell in way of tubes --- Water Drum Heads or Ends:—Range of tensile strength ---

ckness of plates --- Radius or how stayed --- Size of manhole or handhole ---

iders or Sections:—Number 3 ✓ Material S.M. Steel Thickness 0.906" Tested by hydraulic pressure to 785 lbs.

es:—Diameter 3", 2", 1 1/4" Thickness 8&7-8&10-12-BWG Number 7-231-647 Steam Dome or Collector:—Description of

t to shell --- Inside diameter --- Thickness of shell plates --- Range of tensile

ngth --- Description of longitudinal joint --- If fusion welded, state name of welding

Have all the requirements for the Rules for Class I vessels been complied with --- Diameter of rivet holes ---

h of rivets --- Thickness of straps --- Percentage strength of long. joint --- plate --- rivet ---

own or End Plates:—Range of tensile strength --- Thickness --- Radius or how stayed ---

PERHEATER, ~~DRUM~~ Headers:—Number in each boiler 2 ✓ Inside ~~Dimension~~ Dimension 6" x 7" ✓

ckness 1.1/8" ✓ Material S.M. Steel Range of tensile strength --- Are drum shell plates welded

anged --- If fusion welded, state name of welding firm --- Have all the requirements of the Rules

Class I vessels been complied with --- Description of riveting:—Circ. seams --- long. seams ---

meter of rivet holes in long. seams --- Pitch of rivets --- Thickness of straps --- Percentage strength of

g. joint:—Plate --- Rivet --- Diameter of tube holes in drum --- Pitch of tube holes --- Percentage strength of

in shell in way of tubes --- Drum Heads or Ends:—Thickness 1.1/8" Range of tensile strength ---

ius or how stayed Flat Size of manhole or handhole 2.03" Number, diameter, and thickness of tubes 168, 1.1/4", 0.105

ted by hydraulic pressure to 785 lbs. Date of test 15.4. & 18.4.53. Is a safety valve fitted to each section of the superheater which

be shut off from the boiler --- No. and description of safety valves 1 - 1 1/2" Nozzle Type Top Safety Valve Area of each set

alves 1.75 sq. inch. Pressure to which they are adjusted 455 lbs. ✓ Is casing gear fitted Yes. ✓

re Gear. Has the spare gear required by the Rules been supplied Yes. ✓

**KOCKUMS**  
MEKANISKA VERKSTADS AKTIEBOLAG

The foregoing is a correct description,

*J. Lundgren* Manufacturer.

tes } During progress of work in shops - - 6/3- 1953 - 22/6- 1953. Is the approved plan of boiler forwarded herewith.

ile } During erection on board vessel - - 19/8- 1953 - 17/12- 1953. Total No. of visits 31.

is boiler a duplicate of a previous case Yes. If so, state vessel's name and report No. Kockums t/t 359 "SAXONSEA" Mmo. Rpt. No. 3255

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

These boilers have been constructed under Special Survey in accordance with the approved

ans, Secretary's letters and the requirements of the Rules. Materials and workmanship are good.

Photostat copy of the New York Surveyors Report No. 51671 is enclosed herewith.

Survey Fee ... .. Kr. 1.830:- } When applied for 22/12 1953.

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

FRIDAY 15 JAN 1954

Date

mittee's minute See Rpt. 4a

*A. Pöpping & G. Larsson*  
Engineer Surveyor to Lloyd's Register of Shipping.

