

REPORT ON WATER TUBE BOILERS.

No. 23962.

Received at London Office.

124 MAR 1958

Date of writing Report 6/3 1958. When handed in at Local Office 22/3 1958. Port of GOTHENBURG.

No. in Survey held at GOTHENBURG. Date, First Survey 17.4.57. Last Survey 11/3 1958.

Reg. Book 6/42573 on the S/T "MELINE". (Number of Visits 32) Gross 13,405 Tons. Net 7,898

Built at GOTHENBURG. By whom built A.-B. Götaverken Yard No. 716 When built 1958.

Engines made at Stockholm, Gothenburg. By whom made A.-B. De-Lavals Ångturbin & A.-B. Götaverken Engine No. 44412 When made 1958.

Boilers made at Gothenburg. By whom made A.-B. Götaverken Boiler No. 777/9 When made 1957.

HS for Register Book 11.480 sq.ft. Owners A/S Tanktransport Port belonging to Tönsberg.

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Degerfors Järnverks A.-B., Degerfors.

Date of Approval of plan 12.7. and 11.10.56; 15/2, 12/3 and 10/4-1957. No. and Description or Type of Boilers 2 Babcock & Wilcox Working Pressure 500 lbs. Tested by Hydraulic Pressure to 823 lbs. Date of Test 5 & 9.8.57.

No. of Certificate 21600 Can each boiler be worked separately Yes. Total Heating Surface of Boilers 11480 sq.ft. Superheaters 936 sq.ft.

Half Economisers 3370 sq.ft. forced draught fitted Yes. Area of Fire Grate (coal) in each Boiler ---

No. and type of burners (oil) in each boiler 3 Babcock & Wilcox Ltd. Inst. 48.0636 No. and description of safety valves on each boiler 2x2 1/2" Dewrance, Improved high lift. Area of each set of valves per boiler per rule 9,4 sq" as fitted 9,8 sq" Pressure to which they are adjusted 500 lbs/sq" Are they fitted with easing gear Yes.

In case of donkey boilers state whether steam from main boilers can enter the donkey boiler No Donkey Blr Smallest distance between boilers or uptakes and bunkers or woodwork 3 metres. Height of boiler 5710 mm.

Width and length 4846 and 3951 mm. Steam Drums:—Number in each boiler One. Inside diameter 627 + 598,5 = 1225,5 mm.

Thickness of plates 23 and 80 mm. Range of tensile strength 48-56 kg/mm². Are drum shell plates welded or flanged Welded. If fusion welded, state name of welding firm Degerfors Järnverks A.-B. Have all the requirements of the Rules for Class I vessels been complied with Yes.

Description of riveting:—Circ. seams --- long. seams ---

Diameter of rivet holes in long. seams --- Pitch of rivets --- Thickness of straps 32, 15, 51, 20, 82, 95 mm. Percentage strength of long. joint:—Plate --- Rivet --- Diameter of tube holes in drum 102,40 mm. Pitch of tube holes 305 and 175 mm.

Percentage strength of shell in way of tubes 27% Steam Drum Heads or Ends:—Range of tensile strength 48-56 kg/mm²

Thickness of plates 35 mm. Radius 200 & 1040 mm. Size of manhole 406x305 mm. Water Drums:—Number in each boiler 1 Inside diameter 748,5 mm. Thickness of plates 16 & 55 mm. Range of tensile strength 44-50 kg/mm² Are drum shell plates welded or flanged Welded. If fusion welded, state name of welding firm Degerfors Järnverks A.-B. Have all the requirements of the Rules for Class I vessels been complied with Yes.

Description of riveting:—Circ. seams --- long. seams ---

Diameter of rivet holes in long. seams --- Pitch of rivets --- Thickness of straps 32, 15, 51, 20, 82, 95 mm. Percentage strength of long. joint:—Plate --- Rivet --- Diameter of tube holes in drum 102,40 mm. Pitch of tube holes 305 & 175 mm.

Percentage strength of drum shell in way of tubes 27% Water Drum Heads or Ends:—Range of tensile strength 44-50 kg/mm²

Thickness of plates 23 mm. Radius 125 & 640 mm. Size of manhole 406x305 mm.

Headers or Sections:—Number 3 Material Mild Steel Thickness 1" Tested by hydraulic pressure to 823 lbs/sq"

Tubes:—Diameter 2" Thickness 13 v.g. 2.34 mm. Number 55 Steam Dome or Collector:—Description of joint to shell --- Inside diameter --- Thickness of shell plates --- Range of tensile strength --- Description of longitudinal joint --- If fusion welded, state name of welding firm --- Have all the requirements for the Rules for Class I vessels been complied with --- Diameter of rivet holes ---

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

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

SUPERHEATER Headers:—Number in each boiler 2 Inside diameter 6" square

Thickness 1.1/8" Material Mild Steel Range of tensile strength 29.5-30.0 tons/sq" Are drum shell plates welded or flanged --- If fusion welded, state name of welding firm Solid drawn. Have all the requirements of the Rules for Class I vessels been complied with Yes.

Description of riveting:—Circ. seams --- long. seams ---

Diameter of rivet holes in long. seams --- Pitch of rivets --- Thickness of straps --- Percentage strength of long. joint:—Plate --- Rivet --- Diameter of tube holes in drum --- Pitch of tube holes --- Percentage strength of drum shell in way of tubes --- Drum Heads or Ends:—Thickness --- Range of tensile strength ---

Radius or how stayed --- Size of manhole or handhole --- Number, diameter, and thickness of tubes ---

Tested by hydraulic pressure to --- Date of test --- Is a safety valve fitted to each section of the superheater which can be shut off from the boiler --- No. and description of safety valves 1 Dewrance improved high lift Area of each set of valves 4,9 sq" Pressure to which they are adjusted 475 lbs. 750°F Is easing gear fitted Yes.

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

The foregoing is a correct description,

AKTIEBOLAGET GÖTAVÄRKEN / [Signature] Manufacturer.

Dates of Survey 17.4.57 - 17.10.57 Is the approved plan of boiler forwarded herewith No.

while building 7.11.57 - 11.3.58 Total No. of visits 32.

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 boilers have been constructed under SS in acc. with the Rules and approved plans. The workmanship and material used are good. The boilers have been securely fitted aboard under my inspection and to my satisfaction. The safety valves found to work satisfactorily and accumulation test carried out with satisfactory result. Certificates in respect of drums, headers and tubes are attached

Survey Fee ... Fr. : 3.580:- When applied for 22/3 1958.

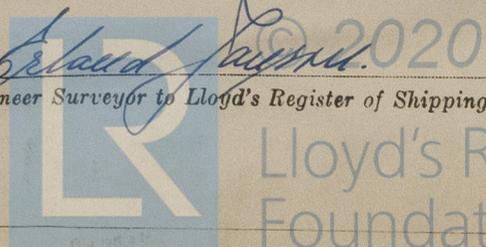
Travelling Expenses (if any) f : : When received 19

TUESDAY - 6 MAY 1958

Date See Rpt. 1.

Committee's Minute See Rpt. 1.

Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation

82124-012128-0156
Huller's Register as no attached, 16.6.58
plans not available