

REPORT ON WATER TUBE BOILERS.

Received at London Office

Date of writing Report 19 When handed in at Local Office 19 Port of

No. in Survey held at Date, First Survey Last Survey 19

Req. Bk. 34733 on the TWIN SCREW MOTOR VESSEL "TAMESIS" (Number of Visits) Tons { Gross 7256. Net 4411.

Built at DANZIG. By whom built F. SCHICHAU. G.m.b.H. When built 1939.

Engines made at ELBING. By whom made F. SCHICHAU. G.m.b.H. When made 1939.

Boilers made at KIEL. By whom made DEUTSCHE WERKE A.G. When made 1939.

Nominal Horse Power 2047. Owners W. WILHELMSEN, OSLO. Port belonging to TÖNSBERG.

WATER TUBE BOILERS MANUFACTURED BY DONKEY.—Manufacturers of Steel

Date of Approval of plan 7/1/39 & 10/2/39 (STEAM COLLECTOR DRUM). Number and Description or Type

of Boilers 1 LAMONT EXHAUST GAS HEATED. Working Pressure 7 kg/cm² (100 lb.) Tested by Hydraulic Pressure to 14 kg/cm² (200 lb.) Date of Test

No. of Certificate ? Can each boiler be worked separately ? Total Heating Surface of Boilers 710 Sq. ft (66 M²)

Is forced draught fitted. Area of fire grate (coal) in each Boiler EXHAUST GAS HEATED.

No. and type of burners (oil) in each boiler. No. and description of safety valves on

each boiler 3 SPRING LOADED { 2 @ 50 mm Collector Drums } Area of each set of valves per boiler { per rule 2610 mm² as fitted 5517 mm² Pressure to which they

are adjusted ? Are they fitted with easing gear ? In case of donkey boilers state whether steam from main boilers can enter

the donkey boiler. Smallest distance between boilers or uptakes and bunkers or woodwork. Height of boiler 2350 mm.

Width and Length 1850 mm dia. Steam Drums:—Number in each boiler 1 Inside diameter 80 mm.

Thickness of plates 20 mm. Range of Tensile Strength 50 kg/mm² minimum. Are drum shell plates welded

or flanged No. If fusion welded, state name of welding firm. Have all the requirements of the rules

for Class I vessels been complied with. Description of riveting:—Cir. seams WELDED long. seams SOLID DRAWN.

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 38 mm. Pitch of tube holes 90 mm.

Percentage strength of shell in way of tubes 57.8. Steam Drum Heads or Ends:—Range of tensile strength

Thickness of plates 15 mm flat. Radius or how stayed. Size of manhole or handhole. Water Drums:—Number

in each boiler 1 Inside Diameter 90 mm Thickness of plates 20 mm. Range of tensile strength 50 kg/mm² MINIMUM. Are drum shell plates

welded or flanged No. If fusion welded, state name of welding firm. Have all the requirements of the rules

for Class I vessels been complied with. Description of riveting:—Cir. seams WELDED long. seam SOLID DRAWN.

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 38 mm. Pitch of tube holes 90 mm.

Percentage strength of drum shell in way of tubes 57.8. Water Drum Heads or Ends:—Range of Tensile strength

Thickness of plates 15 mm flat. Radius or how stayed. Size of manhole or handhole

Headers or Sections:—Number Material Thickness Tested by Hydraulic Pressure to ?

Tubes:—Diameter 32 mm. Thickness 2.5 mm. Number 11 ELEMENTS. 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 of 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

STEAM COLLECTOR Drums or Sections:—Number in each boiler 1 Inside Diameter 600 mm.

Thickness 7 mm. Material STEEL. Range of tensile strength 42 kg/mm² minimum. Are drum shell plates welded

or flanged No. If fusion welded, state name of welding firm. Have all the requirements of the rules

for Class I vessels been complied with. Description of riveting:—Cir. seams S.R. lap. long. seams D.R.D.B.S.

Diameter of rivet holes in long. seams 13.5 mm. Pitch of rivets 59 mm. Thickness of straps 7 mm. Percentage strength of

long. joint:—Plate 77.1 Rivet 89.7. Diameter of tube holes in drum Pitch of tube holes Percentage strength of

drum shell in way of tubes Drum Heads or Ends:—Thickness 9 mm. Range of tensile strength 42 kg/mm² min

Radius or how stayed 480 mm. Size of manhole or handhole 300 x 400 mm. Number, diameter, and thickness of tubes steam collector

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 yes. No. and description of Safety Valves 2 @ 50 mm. SPRING LOADED Area of each set

of valves 3927 mm². Pressure to which they are adjusted Is easing gear fitted ?

Spare Gear. Has the spare gear required by the rules been supplied ?

The foregoing is a correct description,

Manufacturer.

Dates of Survey } During progress of work in shops - - } Is the approved plan of boiler forwarded herewith

while building } During erection on board vessel - - - } Total No. of visits

Is this boiler a duplicate of a previous case. If so, state vessel's name and report No.

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

Survey Fee ... £ : : } When applied for, 19
Travelling Expenses (if any) £ : : } When received, 19

Committee's Minute Assigned

See Log 2 E. 197

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