

REPORT ON WATER TUBE BOILERS.

No. 16376

Received at London Office 15 JUN 1925

Date of writing Report 30th May 1925 When handed in at Local Office 19

Port of HAMBURG

No. in Survey held at MIEL Date, First Survey 25th May 1924. Last Survey 3rd May 1925. Reg. Bk.

on the Steel Twin Sc. Motor V. 'PERSEPHONE' Number of Visits 14. Gross 8956 Tons Net 5041.

Master Built at MIEL By whom built FRIED. KRUPP. GERMANIAWERFT When built 1925

Engines made at MIEL By whom made FRIED. KRUPP. GERMANIAWERFT. F.G. When made 1925

Boilers made at MIEL By whom made FRIED. KRUPP. GERMANIAWERFT. F.G. When made 1925

Registered Horse Power 908 Owners BALTISCH-AMERIK. PETR. INP. G.m.b.H. Port belonging to DANZIG

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

(Letter for Record S.) Date of Approval of plan 19. 7. 23. Number and Description or Type of Boilers 2. Water tubes Working Pressure 14 kg/cm² Tested by Hydraulic Pressure to 28 kg/cm² Date of Test 2. 12. 24.

No. of Certificate 358-359. Can each boiler be worked separately. yes Total Heating Surface of Boilers 240 sq. m.

Is forced draught fitted. yes Area of fire grate (coal) in each Boiler oil fired Total grate area of boilers in vessel including Main and Auxiliary

No. and type of burners (oil) in each boiler 2. Dahl. burners. No. and description of safety valves on each boiler 2. Spring loaded. Area of each valve 70 cm². Pressure to which they are adjusted 14 kg/cm² (200 lb).

Are they fitted with easing gear. yes In case of donkey boilers state whether steam from main boilers can enter the donkey boiler. no. return valve.

Smallest distance between boilers or uptakes and bunkers on woodwork 1000 mm. Height of Boiler 4300 mm. Width and Length 2900-4600 mm.

Steam Drums:—Number in each boiler 1. Inside diameter 1300 mm. Material of plates Steel Thickness 21 mm.

Range of Tensile Strength 44-50 kg/cm². Are drum shell plates welded or flanged. flanged. Description of riveting:—

Cir. seams Sp. double riv. long. seams A. double. double. Diameter of rivet holes in long. seams 28 mm. Pitch of Rivets 93 mm.

Lap of plate or width of butt straps 268 mm. Thickness of straps 18 mm. Percentage strength of long. joint:—Plate 70%. Rivet 96.7%

Diameter of tube holes in drum 95 mm. Pitch of tube holes 185 mm. Percentage strength of shell in way of tubes 48.6%

If Drum has a flat side state method of staying. Depth and thickness of girders at centre (if fitted).

Distance apart. Number and pitch of stays in each. Working pressure by rules 14.25 kg/cm² Steam Drum Heads or Ends:—Material Steel Thickness 25 & 28 mm. Radius or how stayed 1300 mm.

Size of Manhole or Handhole 300 x 400 mm. Water Drums:—Number in each boiler. Inside Diameter.

Material of plates. Thickness. Range of tensile strength. Are drum shell plates welded or flanged.

Description of riveting:—Cir. seams. long. seams. Diameter of Rivet Holes in long. seams.

Pitch of rivets. Lap of plates or width of butt straps. 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. Water Drum Heads or Ends:—Material. Thickness.

Radius or how stayed. Size of manhole or handhole. Headers or Sections:—Number 2.

Material Steel Thickness 22 mm. Tested by Hydraulic Pressure to 28 kg/cm². Material of Stays Steel.

Area supported by each stay 224 sq. cm. Working Pressure by Rules. Tubes:—Diameter 95 mm.

Thickness 3.5 & 4.5 mm. Number 161. Steam Dome or Collector:—Description of Joint to Shell.

Percentage strength of Joint. Diameter. Thickness of shell plates. Material.

Description of longitudinal joint. Diameter of Rivet Holes. Pitch of Rivets. Working Pressure of shell by Rules.

Crown or End Plates:—Material. Thickness. How stayed.

UPERHEATER. Type. Date of Approval of Plan. 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.

Diameter of Safety Valve. Pressure to which each is adjusted. Is easing gear fitted.

Is a drain cock or valve fitted at lowest point of superheater. Number, diameter, and thickness of tubes.

Spare Gear. Tubes. Gaskets or joints:—Manhole. Handhole. Handhole plates.

THICKNESS OF ADJ. WASHERS. MARK ON BOILERS. The foregoing is a correct description, FRIED. KRUPP. GERMANIAWERFT Aktiengesellschaft Manufacturer.

Port. Boiler. Stk 10th m. Part 11. 2. No 258 & 359. LLOYD'S TEST. - 400 LBS. W. P. 200 LBS. F.W. 2. 12. 24.

Stk. " " 11th m. " 12th m.

Dates of Survey During progress of work in shops 20/5-24/6-9/7-14/8-3/10-4/11-25/11-2/12/24. Is the approved plan of boiler forwarded herewith yes.

while building During erection on board vessel 27/2-13/3-6/4-17/4-27/4-3/5/25. Total No. of visits 14.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) Material + workmanship of these boilers are of good quality. The materials used in the construction are made at Works recognized by the Committee as tested by the Surveyor for the Society in accordance with the Rules. These boilers having been made under special survey in conformity with the approved plan, the Surveyor's letter and otherwise in accordance with the requirements of the Rules is eligible in my opinion for record: N. Sup. B. - 25

Survey Fee ... £ 8. : 8. : When applied for, 5th June 1925

Travelling Expenses (if any) £ ... : When received, 25th June 1925

Committee's Minute FRI. 19 JUN 1925

Assigned See other report FRI. 14 AUG 1925

FRI. 4 SEP 1925

FRI. 20 NOV 1925

FRI. 27 NOV 1925

TUES. 8 JUN 1926

