

REPORT ON WATER TUBE BOILERS.

No. 3277

13 AUG 1950

Received at London Office

Date of writing Report **23 MAY 1950** When handed in at Local Office **19** Port of **GOYNIA**
 No. in Survey held at **GOYNIA** Date, First Survey **11 JAN. 1948** Last Survey **24 APRIL 1950**
 Reg. Book. (Number of Visits **14**) Tons Gross **1728.44** Net **584.98**
 on the **TW. SE. S. "KOPERNIK"**
 Built at **DANZIG** By whom built **F. SCHICHAU** Yard No. **P 1982** When built **1903**
 Engines made at **ELBING** By whom made **F. SCHICHAU** Engine No. **S. 1981** When made **1903**
 Boilers made at **FACT. GES. NEPTUN SCHIFF U MAS. ABTEILUNG FUR MASCHINENBAU.** Boiler No. **S. 1934** When made **1934**
 Nominal Horse Power **455.1** Owners **P.K.P. PRZEDSIĘBIORSTWO POMOĆNICZE STATEK-PROM.** Port belonging to **SZCZECIN.**

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel
 Date of Approval of plan **25 MAY 1949** No. and Description or Type **2 FORWD. 2G-9-50**
 of Boilers **4 3 DRUM. YARROW TYPE** Working Pressure **135 KG.** Tested by Hydraulic Pressure to **20 KG.** Date of Test **2 APT. 9-11-50**
 No. of Certificate **-** Can each boiler be worked separately **YES** Total Heating Surface of Boilers **800 SQ. M.**
 Is forced draught fitted **YES** Area of Fire Grate (coal) in each Boiler **5 SQ. M.**
 No. and type of burners (oil) in each boiler **COAL BURNING.** No. and description of safety valves on each boiler **2. SPRING LOADED. ORDINARY LIFT.** Area of each set of valves per boiler (per rule **8370 SQ. MM.** as fitted **19,048 SQ. MM.**) Pressure to which they are adjusted **135 KG.** Are they fitted with easing gear **YES** In case of donkey boilers state whether steam from main boilers can enter the donkey boiler **NO DKY. BLRS.** Smallest distance between boilers or uptakes and bunkers or woodwork **3 M.** Height of boiler **4.8 M.**
 Width and length **4.75 M. x 3.2 M.** Steam Drums:—Number in each boiler **ONE** Inside diameter **1300 mm.**
 Thickness of plates **TOP: 13 mm. BOTT. 25 mm.** Range of tensile strength **41-50 KG. PER SQ. mm.** Are drum shell plates welded or flanged **-** 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:—Circ. seams **D.R.** long seams **D.R. DBS.**
 Diameter of rivet holes in long. seams **20 mm.** Pitch of rivets **82 mm.** Thickness of straps **13 mm.** Percentage strength of long. joint:—Plate **75.6%** Rivet **50.42%** Diameter of tube holes in drum **45/46 mm.** Pitch of tube holes **60/90 mm.**
 Percentage strength of shell in way of tubes **50%** Steam Drum Heads or Ends:—Range of tensile strength **41-50 KGS. / SQ. mm.**
 Thickness of plates **15/18 mm.** Radius or how stayed **1040 mm.** Size of manhole or handhole **400 x 300 mm.** Water Drums:—Number in each boiler **2** Inside diameter **300 & 300** Thickness of plates **16 & 20** Range of tensile strength **41-50 KGS.** Are drum shell plates welded or flanged **WELDED** 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:—Circ. seams **D.R.** 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 **45/46 mm.** Pitch of tube holes **60/90 mm.**
 Percentage strength of drum shell in way of tubes **50%** Water Drum Heads or Ends:—Range of tensile strength **41-50 KGS. / SQ. mm.**
 Thickness of plates **SMALL DRUM: 10 & 18** Radius or how stayed **350 mm.** Size of manhole or handhole **400 x 300 mm.**
 Headers or Sections:—Number **-** Material **-** Thickness **-** Tested by hydraulic pressure to **-**
 Tubes:—Diameter **-** Thickness **-** Number **-** 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, Drums or Headers:—Number in each boiler **-** Inside diameter **-** Thickness **-** Material **-** Range of tensile strength **-** Are drum shell plates welded or flanged **-** 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:—Circ. seams **-** long seams **-**
 Diameter of rivet holes in long. seams **-** Pitch of rivets **-** Thickness of straps **-** Percentage strength of long. joint **-** plate **-** rivet **-**
 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 **-** Area of each set of valves **-** Pressure to which they are adjusted **-** Is easing gear fitted **-**
 Spare Gear. Has the spare gear required by the Rules been supplied **YES**

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 **14**

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 originally built to Germanischer Lloyd Requirements, have been examined internally and externally, together with their safety valves, mountings, manholes, doors and their fastenings, hydraulically tested, and found in good condition, and are eligible in my opinion to**

Survey Fee **£ PLEASE SEE REPORT 9.** When applied for **19** Be classed with the Machinery LMC 5,50, (Watertube Boilers).
 Travelling Expenses (if any) **£** When received **19** J.A. Boates.

Engineer Surveyor to Lloyd's Register of Shipping.

Date **FRI, 6 OCT 1950**
 Committee's Minute **-**

014531-014544-0059

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