

REPORT ON BOILERS.

No. 15563

Received at London Office

JUL 17 1923

Date of writing Report 5th July 1923 When handed in at Local Office

Port of HAMBURG

No. in Survey held at Rostock

Date, First Survey 4th January Last Survey 4th July 1923.

Reg. Book.

(Number of Visits 13)

Gross 6568

on the Steel S. Grete

Tons Net 3994

Master Built at Rostock By whom built Actien Ges. Neptun When built 1923.

Engines made at Rostock By whom made Actien Gesellschaft Neptun When made 1923.

Boilers made at Rostock By whom made Actien Gesellschaft Neptun When made 1923.

Registered Horse Power Owners Carl Wohlenberg Port belonging to Hamburg.

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY—Manufacturers of Steel Mannesmann Rohrenwerke, Abs. Schulz & Söhne, Duisburg.

(Letter for record S.) Total Heating Surface of Boilers 840 sqm Is forced draft fitted yes No. and Description of

Boilers 3, Single ended, multitubular Working Pressure 214 lbs Tested by hydraulic pressure to 370 lbs Date of test 12/5 & 7/6/23.

No. of Certificate 337/333 Can each boiler be worked separately yes Area of fire grate in each boiler 2.24 sqm No. and Description of

safety valves to each boiler 2, spring loaded Area of each valve 7088 sqmm Pressure to which they are adjusted 214 lbs.

Are they fitted with easing gear yes 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 300 mm Mean dia. of boilers 4800 mm Length 3760 mm.

Material of shell plates steel Thickness 37.5 mm Range of tensile strength 45-53 kg Are the shell plates welded or flanged flanged

Descrip. of riveting: cir. seams double riv. long. seams quadr. riv. Diameter of rivet holes in long. seams 40 mm Pitch of rivets 520 mm.

Lap of plates or width of butt straps 886 mm Per centages of strength of longitudinal joint rivets 105 % Working pressure of shell by

rules 234 lbs Size of manhole in shell 400 x 300 mm Size of compensating ring 800 x 700 x 37.5 mm No. and Description of Furnaces in each

boiler 3, Neighton Material steel Outside diameter 1310 mm Length of plain part top 250 mm Thickness of plates crown 19 mm bottom 350 mm

Description of longitudinal joint welded No. of strengthening rings 10 Working pressure of furnace by the rules 214 lbs Combustion chamber

plates: Material steel Thickness: Sides 19 mm Back 17.5 mm Top 17.5 mm Bottom 19 mm Pitch of stays to ditto: Sides 200 mm Back 190 mm.

Top 250 mm If stays are fitted with nuts or riveted heads nuts Working pressure by rules 282 lbs Material of stays steel Area at

smallest part 195 sqmm Area supported by each stay 361 sqmm Working pressure by rules 278 lbs End plates in steam space: Material steel Thickness 27 mm

Pitch of stays 400 mm How are stays secured washers Working pressure by rules 287 lbs Material of stays steel Area at smallest part 5026 sqmm.

Area supported by each stay 1660 sqmm Working pressure by rules 340 lbs Material of Front plates at bottom steel Thickness 27 mm Material of

Lower back plate steel Thickness 27 mm Greatest pitch of stays 600 mm Working pressure of plate by rules 215 lbs Diameter of tubes 76 mm

Pitch of tubes 104 mm Material of tube plates steel Thickness: Front 27 mm Back 25 mm Mean pitch of stays 208 mm Pitch across wide

water spaces 360 mm Working pressures by rules 212 lbs Girders to Chamber tops: Material steel Depth and thickness of

girder at centre 250 x 20 mm Length as per rule 880 mm Distance apart 200 mm Number and pitch of Stays in each 3, 200 mm.

Working pressure by rules 262 lbs Steam dome: description of joint to shell none % of strength of joint

Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

UPERHEATER. Type Schmidt Date of Approval of Plan Standard type Tested by Hydraulic Pressure to 710 lbs

Date of Test 22nd June 1923 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler yes.

Diameter of Safety Valve 50 mm Pressure to which each is adjusted 214 lbs Is Easing Gear fitted yes.

The foregoing is a correct description,

Actien-Gesellschaft „Neptun“

Schiffswerft u. Maschinenfabrik. Manufacturer.

Dates of Survey During progress of 4/1, 7/2, 3/3, 16/3, 28/3, 7/5, 7/6/23.

Is the approved plan of boiler forwarded herewith yes.

while building During erection on 1/6, 22/6, 27/6, 30/6, 3/7, 4/7/23.

Total No. of visits 13.

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

are of good quality and when tested by hydraulic pressure to 370 lbs resp. 710 lbs

the boilers and superheaters were found tight and sound in every respect.

Survey Fee ... £ : : When applied for, 19.

Travelling Expenses (if any) £ : : When received, 19.

Committee's Minute

FRI. 3 JUL 1923

Assigned

See other Ham 15563

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register
Foundation

W32-0071