

REPORT ON BOILERS.

No. 45210

Date of writing Report 22. Oct. 1922. When handed in at Local Office

Received at London Office
Port of HAMBURG

TUE. OCT. 31 1922

No. in Survey held at HAMBURG Date, First Survey 19 June. Last Survey 27. Sept. 1922.
Reg. Book. 81004 on the Steel Twin Screw Motor Vessel "TIRADENTES" (Number of Visits 7) Gross 4960
Master Built at HAMBURG By whom built DEUTSCHE WERFT, A.G. When built 1922.
Boilers made at By whom made When made
Owners Wm. Wilhelmsen. Port belonging to TONSBORG.

VERTICAL DONKEY BOILER— No. A. Description *vertical donkey boiler with cross boiler.* Manufacturers of steel *Gutehoffnungshütte, A.G. Oberhausen.*
Made at HAMBURG By whom made DEUTSCHE WERFT, A.G. When made 1922. Where fixed *Engine room.* Working pressure 144 lbs ✓
tested by hydraulic pressure to 221 lbs Date of test 18/8/22. No. of Certificate 214. *Heating tank 14.9.22.* Description of safety valves *spring loaded.*
No. of safety valves 2. Dia. of each 30 mm. Pressure to which they are adjusted 144 lbs. If fitted with easing gear *yes* If steam from main boilers can enter the donkey boiler
Dia. of donkey boiler 1500 mm. Length 2840 + 320 mm. Material of shell plates *Steel.* Thickness 11 mm. Range of tensile strength 44-50 kg. Descrip. of riveting long. seams *lap double riv.* Dia. of rivet holes 20 mm. Whether punched or drilled *drilled* Pitch of rivets 65.2 mm. ✓
Lap of plating 96 mm. Per centage of strength of joint *Rivets 75.65% Plates 65.4%* Working pressure of shell by rules 129.75 lbs Thickness of shell crown plates 15 mm. ✓
Radius of do 1800 mm. No. of Stays to do. Dia. of stays Diameter of furnace Top 1250 mm. Bottom 1380 mm. Length of furnace 2040 mm. ✓
Thickness of furnace plates 14 mm. Description of joint *welded.* Working pressure of furnace by rules 155 lbs. Thickness of furnace crown plates 16 mm. Radius of do. 1700 mm. Stayed by Diameter of uptake 450 mm. Thickness of uptake plates 10 mm. ✓
Thickness of water tubes 8 mm. ✓

The foregoing is a correct description.

DEUTSCHE WERFT
UNTERNEHMENSGESellschaft

Manufacturer.

Dates During progress of work in shops - 19/6 - 26/6 - 12/7 - 19/7 - 18/8/22.
of Survey while board vessel - 20/10 - 27/10/22
building Total No. of visits 7.

Is the approved plan of boiler forwarded herewith *yes.*

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

Material & workmanship are of best quality. This Donkey Boiler has been tested to 221 lbs hydraulic pressure, showed no weakness and was found tight & sound in every respect at that pressure. As it has been made under Special Survey in accordance with the approved plan and Secretary's Letter E. 21/1/22, and otherwise in conformity with the requirements of the Society's Rules, it is eligible in my opinion for notification "N.D. B.-22". The Donkey Boiler is fitted for burning oil fuel.

Thickness of adjusting washers:

Forew: 28 mm. Aft: 28.5 mm.

Survey Fee ... *Please see attached Report on Oil Engines.* When applied for, 16.0.1. 1922.
Travelling Expenses (if any) £ ✓ : : When received, 19

Committee's Minute FRI. 15 MAY. 1923

Assigned

See other report

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

TUE JUL 24 1923

FRI. 14 SEP. 1923

Lloyd's Register
Foundation