

# REPORT ON BOILERS.

No. 14265

Received at London Office

MON. JUL 1 1919

Date of writing Report August, 1914 When handed in at Local Office

Port of Hamburg

No. in Survey held at Hamburg

Date, First Survey 4<sup>th</sup> May

Last Survey 15<sup>th</sup> July 1914

on the Steel Twin Screw Motor Vessel "Fridy"

(Number of Visits 5) Gross Tons 3083

Net Tons 1863

Built at Hamburg

By whom built Blohm & Voß

When built 1914

Engines made at Hamburg

By whom made Blohm & Voß

When made 1914

Boilers made at Hamburg

By whom made Blohm & Voß

When made 1914

Registered Horse Power 566

Owners Blohm & Voß

Port belonging to Hamburg

~~WATER TUBE~~ **WATER TUBE BOILERS** MAIN, AUXILIARY OR DONKEY. — Manufacturers of Steel Rheinische Stahlwerke, Duisburg

Letter for record S Total Heating Surface of Boilers 485 sq. ft. Is forced draft fitted no No. and Description of Boilers 1 Watertube Boiler Working Pressure 115 lbs Tested by hydraulic pressure to 230 lbs Date of test 22.6.14

No. of Certificate 254 Can each boiler be worked separately — Area of fire grate in each boiler — No. and Description of Safety valves to each boiler 2 Spring loaded Area of each valve 3.04 sq. inch Pressure to which they are adjusted 115 lbs

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

Smallest distance between boilers or uptakes and bunkers or woodwork 2' 5" Mean dia. of boilers 2' 9 7/8" Length 7' 5 3/8"

Material of shell plates Steel Thickness 1" Range of tensile strength 25-26 tons Are the shell plates welded or flanged no

Description of riveting: cir. seams lap, dbl. riv. long. seams lap, dbl. riv. Diameter of rivet holes in long. seams 1.1" Pitch of rivets 3.94"

No. of plates or width of butt straps 5.4" Per centages of strength of longitudinal joint rivets 45% plate 72% Working pressure of shell by rules 347 lbs. Size of manhole in shell 11 3/4 x 15 3/4" Size of compensating ring none, flanged No. and Description of Furnaces in each

1 mouth Material — Outside diameter — Length of plain part — Thickness of plates crown — bottom —

Description of longitudinal joint — No. of strengthening rings — Working pressure of furnace by the rules — Combustion chamber

Material — Thickness: Sides — Back — Top — Bottom — Pitch of stays to ditto: Sides — Back —

If stays are fitted with nuts or riveted heads — Working pressure by rules — Material of stays — Diameter at

at part — Area supported by each stay — Working pressure by rules — End plates in steam space: Material Steel Thickness 7/16"

How are stays secured — Working pressure by rules 380 lbs Material of stays — Diameter at smallest part —

Area supported by each stay — Working pressure by rules — Material of Front plates at bottom Steel Thickness 1" Material of

over back plate Steel Thickness 1" Greatest pitch of stays — Working pressure of plate by rules 140 lbs Diameter of tubes 1.77"

Length of tubes 3.125" Material of tube plates Steel Thickness: Front — Back — Mean pitch of stays — Pitch across wide

over spaces — Working pressures by rules — Girders to Chamber tops: Material — Depth and thickness of

at centre — Length as per rule — Distance apart — Number and pitch of Stays in each —

Working pressure by rules — Superheater or Steam chest; how connected to boiler dbl. riv. Can the <sup>dome</sup>superheater be shut off and the boiler worked

separately no Diameter 16.2" Length 22.8" Thickness of shell plates 4/16" Material Steel Description of longitudinal joint lap, riv. Diam. of rivet

is .905" Pitch of rivets 2.2" Working pressure of shell by rules 387 lbs Diameter of flue — Material of flue plates — Thickness —

Flued with rings — Distance between rings — Working pressure by rules — End plates: Thickness 5/16" How stayed —

Working pressure of end plates 310 lbs. Area of safety valves to superheater — Are they fitted with easing gear —

The foregoing is a correct description,

Signature

Manufacturer.

Dates During progress of work in shops 4/5. During erection on board vessel 8/6, 14/6, 22/6, & 15/7 1914

Is the approved plan of boiler forwarded herewith yes

Total No. of visits 5

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) This Donkey Boiler has been built and material tested in accordance with the approved plan, please see letter to G. B. S. 14, the workmanship and material are of best quality and in my opinion eligible to be fit on board of a vessel classed with this Society.

Survey Fee as per Main Report When applied for 191 Travelling Expenses (if any) When received 191

Committee's Minute signed See minute on Lth rpt. No 15771

FRI. AUG. 31 1923

TUE. OCT. 10 1922

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

FRI. NOV. 18 1921

FRI. SEP. 4 1920

FRI. DEC. 5 1919

TUES. 22 JUL 1924

FRI. OCT. 14 1921

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