

REPORT ON BOILERS.

No. 379.

Received at London Office

Date of writing Report 23rd March 1914 When handed in at Local Office

Port of Bremen.

SAT MAR 28 1914

No. in Survey held at Bremen
Reg. Book.

Date, First Survey 23rd April 1913 Last Survey 14th March 1914

on the Steel Sc SR "GREIFFENFELS"

(Number of Visits 8)
Gross 5852
Tons Net 3661

Master E. F. Locken Built at Bremen By whom built Aktion Gesellschaft Weser When built 1914

Engines made at Bremen By whom made Aktion Gesellschaft Weser when made 1914

Boilers made at Bremen By whom made Aktion Gesellschaft Weser when made 1914

Registered Horse Power 520 Owners Deutsche Dampfschiffahrtsgesellschaft Port belonging to Bremen.

MULTITUBULAR BOILERS MAIN, AUXILIARY OR DONKEY. — Manufacturers of Steel Friedr. Krupp Aktiengesellschaft Breda'sche Schiffbauwerkstatt A.G.

(Letter for record 5) Total Heating Surface of Boilers 102659 ft² Is forced draft fitted no No. and Description of

Boilers 1 cylindrical multitubular Working Pressure 121 lbs Tested by hydraulic pressure to 182 lbs Date of test 3/2.14.

No. of Certificate 78. Can each boiler be worked separately yes Area of fire grate in each boiler 45.375 ft² No. and Description of

safety valves to each boiler 2 spring loaded Area of each valve 2.40 in² Pressure to which they are adjusted 121 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 20 in Mean dia. of boilers 144 in Length 120 in

Material of shell plates Steel Thickness .79 in Range of tensile strength 28-33 tons Are the shell plates welded or flanged yes

Descrip. of riveting: cir. seams double long. seams double Diameter of rivet holes in long. seams 1 in Pitch of rivets 6.55 in

Lap of plates or width of butt straps 14.6 in Per centages of strength of longitudinal joint rivets 130 Working pressure of shell by

rules 137 lbs Size of manhole in shell 14.8 x 15.8 in Size of compensating ring 33.9 x 29.2 in No. and Description of Furnaces in each

boiler 3, plain Material 1/2 in steel Outside diameter 32.6 in Length of plain part top 2.90 in Thickness of plates crown .62 in

Description of longitudinal joint welded No. of strengthening rings 1 Working pressure of furnace by the rules 143 lbs Combustion chamber

plates: Material Steel Thickness: Sides .57 in Back .53 in Top .52 in Bottom .83 in Pitch of stays to ditto: Sides 8.2 x 7.5 in Back 8.8 x 7.1 in

Top 8.2 x 7.9 in If stays are fitted with nuts or riveted heads nuts Working pressure by rules 137 lbs Material of stays Steel Diameter at

smallest part 2.13 in Area supported by each stay 68.60 in² Working pressure by rules 136 lbs End plates in steam space: Material Steel Thickness .79 in

Pitch of stays 15.8 x 13.8 in How are stays secured double nut Working pressure by rules 129 lbs Material of stays steel Diameter at smallest part 2.25 in

Area supported by each stay 216 in² Working pressure by rules 138 lbs Material of Front plates at bottom 1/2 in steel Thickness .88 in Material of

Lower back plates 1/2 in steel Thickness .71 in Greatest pitch of stays 15.3 x 6.8 in Working pressure of plate by rules 123 lbs Diameter of tubes 3.25 in

Pitch of tubes 4.4 x 4.5 in Material of tube plates Steel Thickness: Front .88 in Back .29 in Mean pitch of stays 8.9 in Pitch across wide

water spaces 14.4 in Working pressures by rules 125 lbs Girders to Chamber tops: Material 1/2 in steel Depth and thickness of

girder at centre 2.7 x 4.01 in Length as per rule 22 in Distance apart 2.9 in Number and pitch of Stays in each 2-8.7 in

Working pressure by rules 161 lbs Superheater or Steam chest; how connected to boiler — Can the superheater be shut off and the boiler worked

separately yes Diameter — Length — Thickness of shell plates — Material — Description of longitudinal joint — Diam. of rivet

holes — Pitch of rivets — Working pressure of shell by rules — Diameter of flue — Material of flue plates — Thickness —

If stiffened with rings — Distance between rings — Working pressure by rules — End plates: Thickness — How stayed —

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

The foregoing is a correct description,
ACTIENGESELLSCHAFT WESER Manufacturer.

Dates of Survey } During progress of 1913: April 23, May 23, Oct 11, Nov 12, 1914: Jan 30 Is the approved plan of boiler forwarded herewith yes
while building } Feb. 3.
} During erection on board vessel 1914: Feb 19, March 14. Total No. of visits 8.

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

See Report on Machinery.

Survey Fee ... £ : : When applied for, ... 19
Travelling Expenses (if any) £ : : When received, ... 19

G. H. C. B. M.

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

Committee's Minute TUE. MAR. 31. 1914
Assigned



W425-0242