

REPORT ON BOILERS.

No. 637

TUE. APR. 3 1923

Received at London Office

Date of writing Report 29th March 23 When handed in at Local Office

in Port of Bremen

No. in Survey held at Bremen & Bremerhaven Date, First Survey 14th February Last Survey 27th March 1923

Reg. Book.

No. 9044 on the Tain S/S "OHIO" ex "MÜNCHEN"

(Number of Visits 18)

Gross 18940

Net 10234

Master Built at Bremen By whom built Act. Geo. Wiser When built 1922

Engines made at Bremen By whom made Act. Geo. Wiser When made 1921

Boilers made at Bremen By whom made Act. Geo. Wiser When made 1921

Registered Horse Power Owners Royal Mail Steam Packet Co. Port belonging to Southampton

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Friedr. Schupp & Co. Bremen - Ruhr

Letter for record 5 6 double + 1 single 45,000 sq ft Total Heating Surface of Boilers Is forced draft fitted Yes No. and Description of

Boilers 1 single and cyl. multitubular Working Pressure 220 kg Tested by hydraulic pressure to 2325 kg Date of test 6.8.22

No. of Certificate Can each boiler be worked separately Yes Total G.S. 1015 sq ft Area of fire grate in each boiler 7.25 sq m No. and Description of

Safety valves to each boiler 3 direct spring Dia. Area of each valve 100 sq mm Pressure to which they are adjusted 15.5 kg/220 kg

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 5200 mm Length 3540 mm

Material of shell plates Steel Thickness 38.5 mm Range of tensile strength 47-55 kg Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams Double long. seams scalloped straps quad Diameter of rivet holes in long. seams 41 mm Pitch of rivets 495 mm

Lap of plates or width of butt straps 820 mm Per centages of strength of longitudinal joint rivets at 86 1/2 % Working pressure of shell by

rules 15.5 kg Size of manhole in shell 300 x 400 mm Size of compensating ring 100 x 980 x 38.5 mm No. and Description of Furnaces in each

boiler 4 Suspension Material Steel Outside diameter 1134 mm Length of plain part top Thickness of plates crown 17 mm

Description of longitudinal joint welded No. of strengthening rings Working pressure of furnace by the rules 15.1 kg Combustion chamber

plates: Material Steel Thickness: Sides 18.5 Back 18.5 Top 18.5 Bottom 24 mm Pitch of stays to ditto: Sides 90 x 205 Back 90 x 200

Top 90 x 200 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 22 kg Material of stays Steel Area at

at 38-53.5, margin stay 47 mm net dia. smallest part of Area supported by each stay 90 x 205 Working pressure by rules 18.5 kg End plates in steam space: Material Steel Thickness 25 mm

Pitch of stays 430 x 380 How are stays secured double nuts Working pressure by rules 5.2 kg Material of stays Steel Area at smallest part 74 mm

Area supported by each stay 400 x 480 Working pressure by rules 5.1 kg Material of Front plates at bottom Steel Thickness 25 mm Material of

Lower back plate Steel Thickness 27 mm Greatest pitch of stays 420 x 200 Working pressure of plate by rules 16 1/2 kg Diameter of tubes 76 mm

Pitch of tubes 103 x 105 Material of tube plates Steel Thickness: Front 25 mm Back 24 mm Mean pitch of stays 236 mm Pitch across wide

water spaces 355 mm Working pressures by rules 24.6 kg Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 270 x 2 x 15 Length as per rule 720 mm Distance apart 200 mm Number and pitch of Stays in each 3-190 mm

Working pressure by rules 21 kg 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

SUPERHEATER. Type None Date of Approval of Plan 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

Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

The foregoing is a correct description,

Manufacturer.

Dates During progress of work in shops - - -
while building During erection on board vessel - - -

Is the approved plan of boiler forwarded herewith Yes

Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) Rpt. 4 attached.

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

Committee's Minute TUE 17 APR. 1923

Assigned

Engineer Surveyor to Lloyd's Register of Shipping

Lloyd's Register
Foundation

Twin S/S "OHIO" ex "MÜNCHEN"

FORD:			THICKNESS OF ADJUSTING WASHERS.					
ABC				A	B	C	D	E
PORT FORD	CENTRE Fd	STAR Fd	FORWD. BOILER	$\frac{13}{32}$ "	$\frac{29}{32}$ "	$\frac{19}{32}$ "		
			PORT FORD. "	$\frac{3}{8}$ "	$\frac{7}{16}$ "	$\frac{13}{32}$ "	$\frac{1}{4}$ "	$\frac{11}{32}$ "
			CENTRE " "	$\frac{3}{8}$ "	$\frac{3}{8}$ "	$\frac{15}{32}$ "	$\frac{5}{16}$ "	$\frac{13}{32}$ "
E	D E	D E	STAR " "	$\frac{3}{16}$ "	$\frac{5}{16}$ "	$\frac{7}{16}$ "	$\frac{1}{2}$ "	$\frac{1}{8}$ "
BC	ABC	ABC	PORT AFT "	$\frac{19}{32}$ "	$\frac{13}{32}$ "	$\frac{5}{16}$ "	$\frac{1}{2}$ "	$\frac{13}{32}$ "
			CENTRE " "	$\frac{13}{32}$ "	$\frac{15}{32}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{9}{32}$ "
			STAR " "	$\frac{15}{32}$ "	$\frac{5}{8}$ "	$\frac{19}{32}$ "	$\frac{3}{8}$ "	$\frac{17}{32}$ "
E	D E	D E						
BC	ABC	ABC						

LIST OF PUMPS:-

bilge pump connected to each main engine dia 175^{m/m} x 650^{m/m} stroke
 bath " " " " " " " " 140 " x 650 " "
 sanitary " " " " " " " " 140 " x 650 " "
 i pump:- 2 Duplex Weir System, Steam cyl 360^{m/m} dia, 2 x 700 dia pump x 555^{m/m} str
 Feed:- Weir Type double 500 x 360 x 825^{m/m} stroke
 " " " " 400 x 280 x 600 " "
 feed & ash ejector:- 2 Duplex 320 x 220 x 300^{m/m} stroke
 Ballast:- 1 Simplex 280 x 360 x 675^{m/m} stroke
 Bilge:- 2 " 220 x 280 x 600 " "
 main circulating 2 - Impellers 1300^{m/m} dia, steam cyl 1300^{m/m} dia x 280 str
 " 1 - " 700 " " " " 155 " " x 140 "
 Fresh water 2 Simplex 140 x 180 x 300^{m/m} stroke.

G. H. C. Kamm