

REPORT ON BOILERS.

No. 1279.

Received at London Office

Date of writing Report 13 June 1922 When handed in at Local Office 13 June 1922 Port of Nantes THU. 15 JUN. 1922

No. in Survey held at St. Nazaire and Date, First Survey 21st April, 1922 Last Survey 7-6-22- 191

Reg. Book. on the Single Screw Oil Tank Steamer SAINT BONIFACE (yard N^o 21) Tons } Gross
Net

Master Built at Caen By whom built Chantiers Navals Français When built 1922

Engines made at St. Nazaire By whom made Chantiers de la Loire When made 1922

Boilers made at St. Nazaire By whom made Chantiers de Penhoët When made 1922

Registered Horse Power 2750 Owners Port belonging to

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR DONKEY~~.—Manufacturers of Steel Tignac, Polville of Motherwell and Schneider et al of Le Creusot

(Letter for record S.) Total Heating Surface of Boilers 108^m 56 Is forced draft fitted No No. and Description of Boilers One single ended - to burn oil fuel. Working Pressure 8^{kg} 5 Tested by hydraulic pressure to 16^{kg} 25 Date of test 7-6-22

No. of Certificate 62 Can each boiler be worked separately ✓ Area of fire grate in each boiler ✓ No. and Description of safety valves to each boiler Two Spring Loaded Area of each valve 4536 m²/m² Pressure to which they are adjusted 8.5

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 on deck steel Main dia. of boilers 3.350 Length 3.342

Material of shell plates Steel Thickness 18^m/m Range of tensile strength 49/55 K^m/m² Are the shell plates welded or flanged no

Descrip. of riveting: cir^{END} seams D.R. long. seams T.R. Lap Diameter of rivet holes in long. seams 26 Pitch of rivets 89.5

Lap of plates or width of butt straps 168 Per centages of strength of longitudinal joint rivets 72.6 Working pressure of shell by rules 8^{kg} 6 Size of manhole in shell 300 x 400 Size of compensating ring flanged plate 852-752-25 No. and Description of Furnaces in each boiler 2. Main. Cornd Material Steel Outside diameter 1.050 Length of plain part top Thickness of plates crown bottom 12^m/m

Description of longitudinal joint welded No. of strengthening rings Cornd Working pressure of furnace by the rules 11^{kg} 5 Combustion chamber plates: Material Steel Thickness: Sides 16 Back 16 Top 16 Bottom 16 Pitch of stays to ditto: Sides 220 x 240 Back 220 x 240

Top 240 x 210 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 11^{kg} 7 Material of stays Steel Diameter at smallest part 33^m/m Area supported by each stay 528^m 2 Working pressure by rules 10.7 End plates in steam space: Material Steel Thickness 21

Pitch of stays 380 x 390 How are stays secured Screwed into end plates N.W. outside Working pressure by rules 8.6 Material of stays Steel Diameter at smallest part 50

Area supported by each stay 1482^m 2 Working pressure by rules 10.1 Material of Front plates at bottom Steel Thickness 21 Material of Lower back plate Steel Thickness 21 Greatest pitch of stays 500^m/m dia. and Working pressure of plate by rules 11.0 Diameter of tubes 80

Pitch of tubes 110 x 112 Material of tube plates Steel Thickness: Front 21 Back 19 Mean pitch of stays 222^m/m Pitch across wide water spaces 360 Working pressures by rules 11^{kg} 8 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 180 x 28 Length as per rule 715 Distance apart 210 Number and pitch of Stays in each 2 - 240

Working pressure by rules 10.6 Superheater or Steam chest: how connected to boiler ✓ Can the superheater be shut off and the boiler worked separately ✓ 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.

Manufacturer.

Dates of Survey } During progress of 1922 Ap. 21, May. 5, 10, 19, 24, 30, June. 1 and 7 = 8^{vis} Is the approved plan of boiler forwarded herewith yes

while } During erection on } Total No. of visits 8+

building } board vessel - - - }

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) Workmanship good. This Donkey Boiler has been specially surveyed during construction. It has been built in accordance with the approved plan and otherwise in accordance with the Rules. and it will be eligible, in my opinion to be included in the notation of + L.M.C. when fitted on board. Certificates for material attached hereto.

Survey Fee £7.16.0 = 385/- When applied for, 13th June, 1922

Travelling Expenses (if any) do 240/- When received, 1922

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

Committee's Minute

Assigned

FRI. MAR. 2 1923

TUE. 6 MAR. 1923

005180-005186-0157

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