

REPORT ON BOILERS.

No. 11504

Date of writing Report 6 Nov 1920 When handed in at Local Office 19 Port of Rotterdam
No. in Survey held at Rotterdam Date, First Survey 25 Apr 1916 Last Survey 25 May 1917
Reg. Book. on the Boilers Nos 580-581 now placed in S/MARSDIEP. (Number of Visits 10) Gross 2014 Tons Net 1177
Master A. B. ten Built at Capelle 70 April By whom built A. Vuyk - Zee When built 1920
Engines made at Amsterdam By whom made Verhuur - Co When made 1920
Boilers made at Rotterdam By whom made Burgershout's Machinefabriek When made 1916-17
Registered Horse Power 223.9 Owners Holl Vrachter Mij Port belonging to Rotterdam

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Gebroeders Hutten
(Letter for record S) Total Heating Surface of Boilers 4020 sq Is forced draft fitted no No. and Description of Boilers 2 S.E. multitubular Working Pressure 180 Tested by hydraulic pressure to 270 Date of test 25.5.17
No. of Certificate 683 Can each boiler be worked separately yes Area of fire grate in each boiler 69 sq No. and Description of safety valves to each boiler 2 Spring loaded Area of each valve 5.94 sq Pressure to which they are adjusted 100 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 D.B.
Smallest distance between boilers or uptakes and bunkers or woodwork 9 1/2" Mean dia. of boilers 14'-5 1/4" Length 19'-6 3/8"
Material of shell plates steel Thickness 1 1/4" Range of tensile strength 20.5-23 Are the shell plates welded or flanged no
Descrip. of riveting: cir. seams double lap long. seams flush diameter of rivet holes in long. seams 1 5/16" Pitch of rivets 8 9/16"
Lap of plates or width of butt straps 19 1/4" Per centages of strength of longitudinal joint rivets 94.5% plate 84.7% Working pressure of shell by rules 191 lbs Size of manhole in shell 12" x 16" Size of compensating ring 29 1/2" x 33 1/2" No. and Description of Furnaces in each boiler 3 horizontal Material steel Outside diameter 47 1/4" Length of plain part top 27 1/2" bottom 27 1/2" Thickness of plates crown 5/8" bottom 5/8"
Description of longitudinal joint Welded No. of strengthening rings 1 Working pressure of furnace by the rules 105 Combustion chamber plates: Material steel Thickness: Sides 1 1/16" Back 1 1/16" Top 1 1/16" Bottom 2 7/32" Pitch of stays to ditto: Sides 7 7/8" x 7 7/8" Back 7 1/2" x 8 1/4" Top 7 7/8" x 7 7/8" If stays are fitted with nuts or riveted heads yes Working pressure by rules 102 Material of stays steel Area at smallest part 1/470 Area supported by each stay 60 1/2" Working pressure by rules 109 End plates in steam space: Material steel Thickness 1 1/16"
Pitch of stays 7 7/8" x 7 7/8" How are stays secured flush Working pressure by rules 107 Material of stays steel Area at smallest part 5.94
Area supported by each stay 256 sq Working pressure by rules 234 Material of Front plates at bottom steel Thickness 2 7/32" Material of Lower back plate steel Thickness 2 7/32" Greatest pitch of stays 13 3/32" Working pressure of plate by rules 353 Diameter of tubes 3 1/2"
Pitch of tubes 4 1/32" x 4 1/32" Material of tube plates steel Thickness: Front 2 7/32" Back 2 7/32" Mean pitch of stays 4 3/16" x 4 3/16" Pitch across wide water spaces 14 3/16" Working pressures by rules 105 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 1 1/8" x 8 1/16" Length as per rule 3 1/2" Distance apart 7 7/8" Number and pitch of Stays in each 3 x 7 1/16"
Working pressure by rules 100 Steam dome: description of joint to shell yes % of strength of joint yes
Diameter yes Thickness of shell plates yes Material yes Description of longitudinal joint yes Diam. of rivet holes yes
Pitch of rivets yes Working pressure of shell by rules yes Crown plates yes Thickness yes How stayed yes

SUPERHEATER. Type yes Date of Approval of Plan yes Tested by Hydraulic Pressure to yes
Date of Test yes Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler yes
Diameter of Safety Valve yes Pressure to which each is adjusted yes Is Easing Gear fitted yes

The foregoing is a correct description, BURGERHOUT'S MACHINEFABRIEK & SCHEEPSWERF Manufacturer. G. Burgerhout
Dates of Survey: During progress of work in shops - 25/4-10/5-16/6-4/7-23/8-15/9-27/10-19/11 Is the approved plan of boiler forwarded herewith yes
while building (During erection on board vessel - - -) 12/4-27/5-19/7 Total No. of visits 10

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The boilers have been made in accordance with the Society's Rules, approved plans on Secretary's letter, material tested as required and workmanship good. The boilers are true copies of boiler 579, Rotterdam Rep No 10966. They have been sold to Verhuur - Co Amsterdam and now placed in S/MARSDIEP.

Survey Fee ... 160.00 : When applied for, 10/11 1920 : 15/11 1920
Travelling Expenses (if any) £ : : When received, 15/11 1920

ESTD 1871
FRI NOV 19 1920

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No 39

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