

REPORT ON BOILERS.

No. 25061

Received at London Office 5 AUG 1949

of writing Report 28 May 1949 When handed in at Local Office 28 May 1949 Port of ANTWERP

Survey held at SERANGET & ANTWERP Date, First Survey 19-3-48 Last Survey 5-5-49

on the m/v "BELGIAN PRIDE" (Number of Visits 11) Gross 2702 Tons Net 4969 Tons

Built at Hoboken By whom built D. A. Jhn. Cockeill Yard No. 694 Commissioned When built 1949

Lines made at Serang By whom made D. A. Jhn. Cockeill Engine No. 6249 When made 1949

Boilers made at Serang By whom made D. A. Jhn. Cockeill Boiler No. 17224 When made 1949

Principal Horse Power 1028 Owners Belgian Gulf Oil Comp. Port belonging to Antwerp

WASTE HEAT

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

D. A. Jhn. Cockeill de Grivegnie
Fabrique de Fer de Charleroi
Manufacturers of Steel Usine des Tubes de la Meuse

al Heating Surface of Boilers 175 m² Is forced draught fitted no

and Description of Boilers One multitubular waste heat boiler Working Pressure 12 kg/cm²

tested by hydraulic pressure to 22 kg/cm² Date of test 11-2-49 No. of Certificate Can each boiler be worked separately

of Firegrate in each Boiler No. and Description of safety valves to each boiler two, improved high lift (Schaeffer & Budenberg)

of each set of valves per boiler per Rule 11652 (Ordinary) Pressure to which they are adjusted 12 kg/cm² Are they fitted with easing gear

case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

allest distance between boilers or uptakes and bunkers or woodwork none Is oil fuel carried in the double bottom under boilers no

allest distance between shell of boiler and tank top plating 493 mm Is the bottom of the boiler insulated

est internal dia. of boilers 2400 mm Length 3400 mm Shell plates: Material S.M. steel Tensile strength 41/44 kg/mm²

ckness 17 mm Are the shell plates welded or flanged Description of riveting: circ. seams end double lap joint inter

seams Triple riveted double butt straps Diameter of rivet holes in circ. seams 24 mm Pitch of rivets 68, 2 mm 158 mm

centage of strength of circ. end seams plate 64, 8 rivets 61, 5 Percentage of strength of circ. intermediate seam plate 82, 7 rivets 143

centage of strength of longitudinal joint plate 82, 7 rivets 143 Working pressure of shell by Rules 12, 15 kg/cm²

ckness of butt straps outer 14 mm inner 17 mm No. and Description of Furnaces in each Boiler none

erial Tensile strength Smallest outside diameter

th of plain part top Thickness of plates crown bottom Description of longitudinal joint

ensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules

plates in steam space: Material S.M. steel Tensile strength 41/44 kg/mm² Thickness 23 mm Pitch of stays 250-300

are stays secured main stays with nuts & washers in and outside outside washer riveted Working pressure by Rules 12, 15 kg/cm²

e plates: Material front S.M. steel Tensile strength 41/44 kg/mm² Thickness 23 mm

back S.M. steel Tensile strength 41/44 kg/mm² Thickness 23 mm

pitch of stay tubes in nests 194 mm Pitch across wide water spaces 325 mm Working pressure front 40, 5 kg/cm² back 40, 2 kg/cm²

ers to combustion chamber tops: Material none Tensile strength Depth and thickness of girder

entre Length as per Rule Distance apart No. and pitch of stays

ch Working pressure by Rules Combustion chamber plates: Material none

le strength Thickness: Sides Back Top Bottom

of stays to ditto: Sides Back Top Are stays fitted with nuts or riveted over

ing pressure by Rules Front plate at bottom: Material S.M. steel Tensile strength 41/44 kg/mm²

ness 23 mm Lower back plate: Material S.M. steel Tensile strength 41/44 kg/mm² Thickness 23 mm

of stays at wide water space 370 mm main stays at bottom Are stays fitted with nuts or riveted over

ing pressure 12, 15 kg/cm² Main stays: Material S.M. steel Tensile strength 41/44 kg/mm²

At body of stay 15 mm No. of threads per inch 6 Area supported by each stay 10, 5 mm²

Over threads Screw stays: Material none Tensile strength

ing pressure by Rules 12, 15 kg/cm² At turned off part No. of threads per inch Area supported by each stay

Over threads

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ANNEXE
No 281
A. RUELLÉ BRUXELLES

Working pressure by Rules... Are the stays drilled at the outer ends... Margin stays: Diameter...
No. of threads per inch... Area supported by each stay... Working pressure by Rules...
Tubes: Material *S.M. steel* External diameter { Plain *51 mm* Stay *51 mm* Thickness *2.5 mm* No. of threads per inch *9*
Pitch of tubes *78 x 76.5 mm* Working pressure by Rules *15 kg/cm²* Manhole compensation: Size of opening *900 x 800 x 17*
shell plate *400 x 200 mm* Section of compensating ring *5700 mm²* No. of rivets and diameter of rivet holes *44 - 25 mm*
Outer row rivet pitch at ends *180 mm* Depth of flange if manhole flanged... Steam Dome: Material *none*
Tensile strength... Thickness of shell... Description of longitudinal joint...
Diameter of rivet holes... Pitch of rivets... Percentage of strength of joint { Plate... Rivets...
Internal diameter... Working pressure by Rules... Thickness of crown... No. and diameter
stays... Inner radius of crown... Working pressure by Rules...
How connected to shell... Size of doubling plate under dome... Diameter of rivet holes and
of rivets in outer row in dome connection to shell...

Type of Superheater *Tubes with headers* Manufacturers of { Tubes *D. A. des Tubes de la Meuse* Steel forgings... Steel castings...
Number of elements *16* Material of tubes *S.M. steel* Internal diameter and thickness of tubes *30 mm - 4 mm*
Material of headers *S.M. steel* Tensile strength *38/45 kg/mm²* Thickness *23 mm* Can the superheater be shut off
the boiler be worked separately *Yes* Is a safety valve fitted to every part of the superheater which can be shut off from the boiler *Yes*
Area of each safety valve *1256 mm²* Are the safety valves fitted with easing gear *Yes* Working pressure as
Rules... Pressure to which the safety valves are adjusted *12 kg/cm²* Hydraulic test press
tubes *70 kg/cm²* forgings *26 kg/cm²* and after assembly in place *39 kg/cm²* Are drain cock
valves fitted to free the superheater from water where necessary *Yes*
Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with *Yes*

SOCIÉTÉ ANONYME JOHN COCKERILL
The foregoing is a correct description,
G. Lammitt *H. Lammitt* Manufacture
FONDE DE POUVOIR *Asst. au CHEF DU Soc. Cid*
(Métallurgie)

Dates of Survey while building { During progress of work in shops - *1948: Mar 19, June 11, July 6, 20, Aug 17, Sept 8, 28, Nov. 19* Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) *Yes*
During erection on board vessel - *1949 Feb 16, Mar 4, May 5* Total No. of visits *11*

Is this Boiler a duplicate of a previous case *No* If so, state Vessel's name and Report No. ...

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *This boiler has been built and installed in the above named vessel, under Special Survey in accordance with the approved plans and the Secretary's letter. The materials and workmanship are good. The boiler was examined under working conditions and its safety valves adjusted to 12 kg/cm² pressure, and is eligible, in my opinion, to have the notation of DB (c) 170 lbs. in the Register Book.*

ju Survey Fee ... *2,585.00* : } When applied for *21.8* 19*49*
Travelling Expenses (if any) *2,955.00* : } When received ... 19*49*

O. J. Lammitt
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute *FRI 9 SEP 1949*
Assigned *See Fe machy rpt*