

## REPORT ON BOILERS.

No. F.E.M. 060

13. MAR. 1962

Received at London Office.....

Date of writing Report 25-2-62 When handed in at Local Office 19..... Port of Gdańsk

No. in Reg. Book Survey held at Gdańsk Date, First Survey 7. April 1962 Last Survey 13 Feb. 1962

on the M.T. "BALACLAVA" (Number of Visits.....) Tons {Gross 13269,91  
Net 8670,18

Built at Gdańsk By whom built Stocznia Gdańska Yard No. B70/2 When built 1960-61

Engines made at Poznań By whom made H. Cegielski Engine No. 006 When made 1960-10

Boilers made at Gdańsk By whom made Stocznia Gdańska 1675 Boiler No. 1676 When made 1961

MN as per Rule Owners USSR Ministry of Shipping Port belonging to R I G A

## MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Huta "Batory", "Kosciuszko", "Jednosc"—Poland; Huta "Vitkovice"—Tschechoslov. &amp; Duesseldorf.

Total Heating Surface of Boilers 281,4 m<sup>2</sup> Of Superheaters NoneTotal for Register Book 562,8 m<sup>2</sup> Is forced draught fitted Yes Coal or Oil fired OilNo. and Description of Boilers Two-Multitubular Marine Scotch Type Working Pressure 12,5 kgs/cm<sup>2</sup>Tested by hydraulic pressure to 22,5 kgs/cm<sup>2</sup> Date of test 29.06.61 No. of Certificate GDK 068 Can each boiler be worked separately Yes

Area of Firegrate in each Boiler None No. and Description of safety valves to each boiler Two-Twin improved high lift

Area of each set of valves per boiler {per Rule 6330mm<sup>2</sup> as fitted 7700mm<sup>2</sup> Pressure to which they are adjusted 12,5 kgs/cm<sup>2</sup> 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 Is oil fuel carried in the double bottom under boilers no

Smallest distance between boilers or uptakes and bunkers or woodwork Is the bottom of the boiler insulated

Largest internal dia. of boilers 4820 mm Length 3489 mm Shell plates: Material SM Steel Tensile strength

If fusion welded, state name of welding Firm Part Welded-Stocznia Gdańska Have all the requirements of the Rules for Class I vessels

been complied with yes Thickness 32mm Part welded Longitud. Double riveted

Treble riveted Double Description of riveting: circ. seams (zig zag) LAP

ong. seams Butt Straps Diameter of rivet holes in {circ. seams 32mm Pitch of rivets 215 mm

Percentage of strength of circ. end seams {plate 64% rivets 43.72% Percentage of strength of circ. intermediate seam {plate

Percentage of strength of longitudinal joint {plate 85.11% rivets 84.87% combined 87.2%

Thickness of butt straps {outer 25mm inner 28mm

No. and Description of Furnaces in each Boiler Three-Morison Type

Material SM. Steel Tensile strength 41 - 47 Kgs/mm<sup>2</sup> 1161 mm (Corrugate)

Length of plain part {top 228 mm bottom 228 mm Thickness of plates 18mm Smallest outside diameter 1051 mm (Neck)

Dimensions of stiffening rings on furnace or c.c. bottom Furnace Corrugations 9 x 202 mm

End plates in steam space: Material SM. Steel Tensile strength Thickness 31mm Pitch of stays 480mm

How are stays secured E W

Tube plates: Material {front SM Steel Tensile strength 41-47 Kgs/mm<sup>2</sup> Thickness 31 mm

Mean pitch of stay tubes in nests 178 mm Pitch across wide water spaces 1335 mm 339

Girders to combustion chamber tops: Material SM. Steel Tensile strength 41-47 Kgs/mm<sup>2</sup> Depth and thickness of girder

centre 160 x 22 mm Length as per Rule 156,3 mm 640 Distance apart 200 mm No. and pitch of stays

each None-Welded Girders Combustion chamber plates: Material SM Steel

Tensile strength Thickness: Sides 18mm Back 18mm Top 18mm Bottom 18mm

Pitch of stays to ditto: Sides 232mm Back 190mm Top none Are stays fitted with nuts or riveted over side shell-stays

Front plate at bottom: Material SM Steel Tensile strength 41-47 kgs/mm<sup>2</sup> screwed in shellThickness 31mm Lower back plate: Material SM Steel Tensile strength 41-47 kgs/mm<sup>2</sup> Thickness 31mm

Pitch of stays at wide water space 190 mm 365 Are stays fitted with nuts or riveted over No - E.W.

Main stays: Material Steel Tensile strength 41-47 Kgs/mm<sup>2</sup>

Diameter {At body of stay 76mm No. of threads per inch None

Over threads new stays: Material Steel Tensile strength 41-48 kgs/mm<sup>2</sup>

Diameter {At turned off part 40mm, 50mm No. of threads per inch None - EW

Over threads



Are the stays drilled at the outer ends. Yes- 5mm dia - 60 mm deep Margin stays: Diameter { At turned off part, 38 mm or Over threads, 45 mm

No. of threads per inch 5 in Shell

Tubes: Material Steel External diameter { Plain, 63,5 Stay, 63,5 Thickness { 4mm 6 & 10mm No. of threads per inch None- E.W.

Pitch of tubes 89mm Manhole compensation: Size of opening in shell plate 475 x 57 mm Section of compensating ring 1155 x 925 x 40mm No. of rivets and diameter of rivet holes 42 & 37 mm dia

Outer row rivet pitch at ends 236 mm Depth of flange if manhole flanged 110mm Steam Dome: Material -

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 - Thickness of crown - No. and diameter of stays - Inner radius of crown -

How connected to shell - Size of doubling plate under dome - Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell -

Type of Superheater - Manufacturers of { Tubes, Steel forgings, Steel castings, -

Number of elements - Material of tubes - Internal diameter and thickness of tubes -

Material of headers - Tensile strength - Thickness - Can the superheater be shut off and the boiler be worked separately - Is a safety valve fitted to every part of the superheater which can be shut off from the boiler -

Area of each safety valve - Are the safety valves fitted with easing gear -

Pressure to which the safety valves are adjusted - Hydraulic test pressure tubes - forgings and castings - and after assembly in place - Are drain cocks valves fitted to free the superheater from water where necessary -

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with Yes

Z-ca Dyr. Naczelnego  
The foregoing is a correct description,  
of the boiler and superheater.

mgr inż. R. Peszkowski  
Manufacture

Dates of Survey { During progress of work in shops - - 7.4; 11, 17, 26, 27, 5; 2, 12.6.61 Are the approved plans of boiler and superheater forwarded herewith Yes (If not state date of approval.)

while building { During erection on board vessel - - See Mach'y Report Total No. of visits -

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.) The Multitubular Marine oil fired Scotch Type, Polish design PA3 Auxiliary Boilers, described herein have been constructed under Special Survey abd in accordance with the Rules, approved plans and Secretary's letters.

The materials used and the workmanship are of good quality, and the Boilers have been efficiently installed on board the M.T. "BALACLAVA"

The Safety valves have been adjusted to lift at 12,5kgs/cm<sup>2</sup>. A steam accumulation test has been carried out with satisfactory results.

In our opinion these Boilers are eligible to be classed with the Main Machinery.

Compression rings distances:

Port Boiler				Stbd.s. Boiler			
Inbd S.V.		Outbd S.V.		Inbd.S.V.		Outbd S	
Inbd.	Outbd.	Inbd.	Outbd.	Inbd.	Outbd.	Inbd.	Outbd.
8,0m	12,0m	12,2m	11,6m	11,3m	9,8m	12,7m	

Survey Fee zŁ 10,237 & £ 195-0-0  
-10% zŁ 9,215 & £ 175.10.  
Travelling Expenses (if any) £ : :  
26.2.62

When applied for, 31-1-1962  
When received, 19.....

Engineer Surveyor to Lloyd's Register of Shipping.  
M. Chuchla

Committee's Minute FRIDAY 27 APR 1962

Assigned

See Rpt 1



© 2021

Lloyd's Register  
Foundation