

REPORT ON BOILERS.

No. 2846

Received at London Office 11 JUL 1925

Date of writing Report 15/5/1924 When handed in at Local Office 8.7.1925 Port of FIUME

No. in Survey held at FIUME & TRIESTE

Date, First Survey 6/8/1924 Last Survey 3/6 1925

71041 on the S/S. KUMANOVO ex GRAND DUKE ALEXANDER

(Number of Visits 24)

Gross 1482

Net 566.

MICHAILOVITCH, ex PRINCESSAN MARGARETA

Master ✓ Built at MALMO By whom built KOCKUMS M.V. AKT. Yard No. ✓ When built 1904.

Engines made at MALMO By whom made KOCKUMS M.V. AKT. Engine No. ✓ When made 1904.

Boilers made at MALMO By whom made KOCKUMS M.V. AKT. Boiler No. ✓ When made 1904.

Nominal Horse Power 230 Owners DUBROVACKA PAROBRODSKA Port belonging to DUBROVNIK, FLOVIDBA

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel (Letter for Record S. ✓)

Total Heating Surface of Boilers 6841.32 Is forced draught fitted No ✓ Coal or Oil fired COAL ✓

No. and Description of Boilers 4 CYLINDRICAL BOILERS. Working Pressure 185 LBS.

Tested by hydraulic pressure to 245 Date of test 20/2/25 No. of Certificate — Can each boiler be worked separately YES.

Area of Firegrate in each Boiler 55.15 No. and Description of safety valves to each boiler 2. SPRING LOADED.

Area of each set of valves per boiler {per Rule 10.310" as fitted 2580" Pressure to which they are adjusted 185 LBS. 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 ✓

Smallest distance between shell of boiler and tank top plating ✓ Is the bottom of the boiler insulated No ✓

Largest internal dia. of boilers 156.5" Length 125.76" Shell plates: Material STEEL Tensile strength ✓

Thickness 127" Are the shell plates welded or flanged ✓ Description of riveting: circ. seams {end 100% RIVETS inter. ✓

Long. seams TREB. RIV. ✓ Diameter of rivet holes in {circ. seams 1.23 long. seams 1.23 Pitch of rivets {3.5" 8.26" ✓

Percentage of strength of circ. end seams {plate 64% rivets 68% Percentage of strength of circ. intermediate seam {plate 85% rivets 83.3% ✓

Percentage of strength of longitudinal joint {plate 85% rivets 83.3% combined ✓ Working pressure of shell by Rules 201 LBS.

Thickness of butt straps {outer 1.06" inner 1.06" No. and Description of Furnaces in each Boiler THREE MORISON TYPE. ✓

Material STEEL Tensile strength ✓ Smallest outside diameter 40.94" ✓

Length of plain part {top 8" bottom 8" Thickness of plates {crown .53" bottom .53" Description of longitudinal joint WELDED. ✓

Dimensions of stiffening rings on furnace or c.e. bottom NONE ✓ Working pressure of furnace by Rules 199 LBS.

End plates in steam space: Material STEEL Tensile strength ✓ Thickness .84" Pitch of stays 1393x15.11" ✓

How are stays secured WITH NUTS. ✓ Working pressure by Rules 199 LBS.

End plates: Material {front STEEL back STEEL Tensile strength ✓ Thickness {86" 86" ✓

Pitch of stay tubes in nests 11.22x9.37" Pitch across wide water spaces 13.9" ✓ Working pressure {front 279 LBS. back ✓

Orders to combustion chamber tops: Material STEEL Tensile strength ✓ Depth and thickness of girder

Centre 7" x 17.4" Length as per Rule 23.85 Distance apart 7.55" No. and pitch of stays

Each 122 - 8.85" Working pressure by Rules 299 LBS. Combustion chamber plates: Material STEEL ✓

Tensile strength ✓ Thickness: Sides .67" Back .59" Top .67" Bottom .67" ✓

Pitch of stays to ditto: Sides 7.48x8.85" Back 7.28x7.32" Top 8.85x7.55" Are stays fitted with nuts or riveted over NUTS. ✓

Working pressure by Rules 205 LBS. Front plate at bottom: Material STEEL Tensile strength ✓

Thickness .86" Lower back plate: Material STEEL Tensile strength ✓ Thickness 80" ✓

Pitch of stays at wide water space 10.23" 13.8" Are stays fitted with nuts or riveted over NUTS. ✓

Working Pressure 214 LBS. Main stays: Material STEEL Tensile strength ✓

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Working pressure by Rules 220 LBS. Are the stays drilled at the outer ends No Margin stays: Diameter { At turned off part, 1 7/8" or Over threads ✓

No. of threads per inch 11. Area supported by each stay 53 sq" Working pressure by Rules 399 LBS.

Tubes: Material STEEL External diameter { Plain 3 1/4" Stay 3 1/4" Thickness { 2 5/16" No. of threads per inch 11.

Pitch of tubes 11.22" x 9.37" Working pressure by Rules 190 LBS. Manhole compensation: Size of opening in shell plate 11.81" x 15.74" Section of compensating ring 7.7" x 1.27" No. of rivets and diameter of rivet holes No 36 DIAM. 1.29"

Outer row rivet pitch at ends ✓ Depth of flange if manhole flanged ✓ 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 ✓ Working pressure by Rules ✓ Thickness of crown ✓ No. and diameter of stays ✓ Inner radius of crown ✓ Working pressure by Rules ✓

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 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 ✓ Working pressure as per Rules ✓ Pressure to which the safety valves are adjusted ✓ Hydraulic test pressure: tubes ✓, castings ✓ and after assembly in place ✓ Are drain cocks or valves fitted to free the superheater from water where necessary ✓

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with ✓

The foregoing is a correct description, ✓ Manufacturer.

Dates of Survey { During progress of work in shops - - } Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)

while building { During erection on board vessel - - } Total No. of visits

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

The quality of workmanship is good boilers compared with the approved plan and found correct. Boiler repaired as necessary please see Engine and boiler report.

Survey Fee Italian Lire = 300

Travelling Expenses (if any) ✓

When applied for, 6/7/25

When received, 25/8/25

Ph. Bonincenti
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 24 JUL 1925

FRI. 21 AUG 1925

Assigned No action

FRI. 26 FEB 192

TUES. 23 MAR 1926

TUES. 27 JUL 1926



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