

REPORT ON BOILERS.

Received at London Office

2 AUG 1947

of writing Report... 22-7-1949 When handed in at Local Office... 19... Port of Rotterdam

Survey held at Flushing Date, First Survey... 17-7-46 Last Survey... 23-6-1947

on the "S/S Komsmolik" (Number of Visits... 5) Tons } Gross... Net...

Built at Howerton Hill on Tees By whom built Furness S. B. Co. Ltd Yard No 251 When built 1936

Lines made at Newcastle By whom made N. E. Marine Eng. Co. Ltd Engine No... When made 1936

Boilers made at... By whom made... 50... Boiler No... When made 1936

Indicated Horse Power... Owners U.S.S.R. Port belonging to Vladivostok

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel... (Letter for Record...)

Total Heating Surface of Boilers 5160 sq ft for 2 tubes Is forced draught fitted Yes Coal or Oil fired Coal

Number and Description of Boilers 2 multitubular Working Pressure 220 lb

Tested by hydraulic pressure to 330 lb Date of test... No. of Certificate... Can each boiler be worked separately Yes

Area of Firegrate in each Boiler 56.5 sq ft No. and Description of safety valves to each boiler 2 spring loaded

Number of each set of valves per boiler } per Rule... as fitted 3/4" Pressure to which they are adjusted 220 lb Are they fitted with easing gear Yes

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

Smallest distance between boilers or uptakes and bunkers or woodwork... Is oil fuel carried in the double bottom under boilers no

Smallest distance between shell of boiler and tank top plating over 12" Is the bottom of the boiler insulated Yes

Largest internal dia. of boilers 15'-1/2" Length 11'-6" Shell plates: Material S.M. steel Tensile strength 29-33 lb

Thickness 1 7/16" Are the shell plates welded or flanged no Description of riveting: circ. seams { end double riveted inter... }

Number of seams double butt 3x riv Diameter of rivet holes in { circ. seams 1 1/32" Pitch of rivets { 4 1/4" long. seams 1 15/32" } 10 3/16"

Percentage of strength of circ. end seams { plate app rivets... } Percentage of strength of circ. intermediate seam { plate app rivets... }

Percentage of strength of longitudinal joint { plate... rivets... combined... } Working pressure of shell by Rules app

Thickness of butt straps { outer 1 3/32" inner 1 7/32" } No. and Description of Furnaces in each Boiler 3 Morrison's

Material S.M. steel Tensile strength 26-30 lb Smallest outside diameter 3'-8 1/2" 3'-5 1/2"

Length of plain part { top... bottom... } Thickness of plates { crown 3 1/32" bottom 3 1/32" } Description of longitudinal joint welded

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

Stays in steam space: Material S.M. steel Tensile strength 26-30 lb Thickness 1 7/16" Pitch of stays 1'-9" x 1'-9"

Are stays secured screwed with washers & nuts Working pressure by Rules app

End plates: Material { front S.M. steel back... } Tensile strength { 26-30 lb } Thickness { 25/32" }

Number and pitch of stay tubes in nests 8 1/2" x 8 1/2" Pitch across wide water spaces 1'-2 3/4" Working pressure { front app back app }

Stays to combustion chamber tops: Material S.M. steel Tensile strength 26-30 lb Depth and thickness of girder

Centre 9 1/2" x 2 x 7/8" Length as per Rule 3'-1 1/2" 3'-0 1/2" Distance apart 8 1/2" No. and pitch of stays

Each 2 x 11" Working pressure by Rules app Combustion chamber plates: Material S.M. steel

Tensile strength 26-30 lb Thickness: Sides 25/32" Back 25/32" Top 25/32" Bottom 25/32"

Number of stays to ditto: Sides 11 x 8 1/2" Back 9 1/2 x 10" Top 9 1/2 x 11" Are stays fitted with nuts or riveted over nuts

Working pressure by Rules app Front plate at bottom: Material S.M. steel Tensile strength 26-30 lb

Thickness 1" Lower back plate: Material S.M. steel Tensile strength 26-30 lb Thickness 63/64"

Number of stays at wide water space 1'-4" Are stays fitted with nuts or riveted over nuts

Working pressure app Main stays: Material S.M. steel Tensile strength 20-32 lb

Number { At body of stay 3 1/2" No. of threads per inch 6 Area supported by each stay... } { Over threads 3 3/4" }

Working pressure by Rules app Screw stays: Material S.M. steel Tensile strength 26-30 lb

Number { At turned off part 2 1/8" x 7/16" No. of threads per inch 9 Area supported by each stay... } { Over threads... }

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Working pressure by Rules *aff* Are the stays drilled at the outer ends *no* Margin stays: Diameter *At turned off part. or Over threads. 2 1/2"*
 No. of threads per inch *9* Area supported by each stay *4 1/6* Working pressure by Rules *2*
 Tubes: Material *SM steel* External diameter *3 1/2"* Thickness *3/16"* No. of threads per inch *9*
 Pitch of tubes Working pressure by Rules Manhole compensation: Size of opening
 shell plate *in flange* Section of compensating ring No. of rivets and diameter of rivet holes
 Outer row rivet pitch at ends *4 1/4"* Depth of flange if manhole flanged *4 1/4"* 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
 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 *Schmidt's* Manufacturers of
 Number of elements *12* Material of tubes Internal diameter and thickness of tubes *1 7/8 - 2 1/2"*
 Material of headers Tensile strength Thickness Can the superheater be shut off a
 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 *35 sq in* Are the safety valves fitted with easing gear *Yes* Working pressure as per
 Rules Pressure to which the safety valves are adjusted *230 lb* Hydraulic test pressure
 tubes forgings and castings and after assembly in place *440 lb* Are drain cocks
 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

The foregoing is a correct description,

 Manufacturer

Dates of Survey while building { During progress of work in shops - - } Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)
 { During erection on board vessel - - - } Total No. of visits

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *These boilers have been examined and verified with the approved plan, Secretary's letters. Tested and found sound & tight.*

Survey Fee £ : : } When applied for.....19.....
 Travelling Expenses (if any) £ : : } When received.....19.....

O.H. Bounce
 Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute *FRI, 28 SEP 1917*
 Assigned *Sir F.E. Mclay. rpt.*

