

REPORT ON BOILERS.

No. 2640.

Received at London Office.....15 NOV 1948

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on the

Writing Report 10th Nov. 48. When handed in at Local Office. 12th Nov. 48. Port of Mahmro

Survey held at Mahmro. Date, First Survey 20th Sept. Last Survey 6th Nov. 1948.

on the M/T "BERUFIGHTER" (Number of Visits 4) Tons { Gross 10,442 Net 6,197

Built at Mahmro By whom built Kockums Mekan. V. A. B. Yard No. 304 When built 1948.

made at Mahmro By whom made Kockums Mekan. V. A. B. Engine No. 486 When made 1948.

made at Mohmmell By whom made Brookside Boiler Co. Ltd. Boiler No. 2145 When made 1948.

Horse Power 1686 Owners Shibs 9s Beantien and Shibs 9s Beantfort. Port belonging to Dolo.

TITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

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

Heating Surface of Boilers..... Is forced draught fitted Yes Coal or Oil fired Oil

and Description of Boilers..... Working Pressure 170 lbs/sq"

by hydraulic pressure to 305 lbs/sq" Date of test 23-12-1947 No. of Certificate 22572 Can each boiler be worked separately Yes

of Firegrate in each Boiler..... No. and Description of safety valves to each boiler Two direct spring loaded.

of each set of valves per boiler { per Rule 6100 mm² as fitted 7696 " Pressure to which they are adjusted 173 lbs/sq" Are they fitted with easing gear Yes.

of donkey boilers, state whether steam from main boilers can enter the donkey boiler No main boilers.

st distance between boilers or uptakes and bunkers or woodwork..... Is oil fuel carried in the double bottom under boilers Yes.

st distance between shell of boiler and tank top plating..... Is the bottom of the boiler insulated Yes.

t internal dia. of boilers..... Length..... Shell plates: Material..... Tensile strength.....

Are the shell plates welded or flanged..... Description of riveting: circ. seams { end..... inter.....

Diameter of rivet holes in { circ. seams..... long. seams..... Pitch of rivets {

Percentage of strength of circ. intermediate seam { plate..... rivets.....

Working pressure of shell by Rules.....

No. and Description of Furnaces in each Boiler.....

Tensile strength..... Smallest outside diameter.....

Thickness of plates { crown..... bottom..... Description of longitudinal joint.....

Working pressure of furnace by Rules.....

plates in steam space: Material..... Tensile strength..... Thickness..... Pitch of stays.....

Working pressure by Rules.....

plates: Material { front..... back..... Tensile strength { Thickness {

Pitch of stay tubes in nests..... Pitch across wide water spaces..... Working pressure { front..... back.....

to combustion chamber tops: Material..... Tensile strength..... Depth and thickness of girder.....

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

Working pressure by Rules..... Combustion chamber plates: Material.....

Thickness: Sides..... Back..... Top..... Bottom.....

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

Working pressure by Rules..... Front plate at bottom: Material..... Tensile strength.....

Lower back plate: Material..... Tensile strength..... Thickness.....

of stays at wide water space..... Are stays fitted with nuts or riveted over.....

Working pressure..... Main stays: Material..... Tensile strength.....

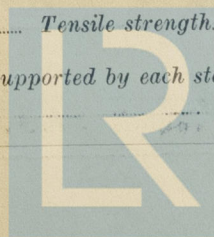
At body of stay..... No. of threads per inch..... Area supported by each stay.....

Over threads.....

Working pressure by Rules..... Screw stays: Material..... Tensile strength.....

At turned off part..... No. of threads per inch..... Area supported by each stay.....

Over threads.....



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Working pressure by Rules..... Are the stays drilled at the outer ends..... Margin stays: Diameter { At turned off part, or Over threads.....

No. of threads per inch..... Area supported by each stay..... Working pressure by Rules.....

Tubes: Material..... External diameter { Plain..... Stay..... Thickness { No. of threads per inch.....

Pitch of tubes..... Working pressure by Rules..... Manhole compensation: Size of shell plate..... Section of compensating ring..... No. of rivets and diameter of rivet holes.....

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 stays..... Inner radius of crown..... Working pressure by Rules.....

How connected to shell..... Size of doubling plate under dome..... Diameter of rivet hole 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 sh 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 pres Rules..... Pressure to which the safety valves are adjusted..... Hydraulic test tubes..... forgings and castings..... and after assembly in place..... Are dra 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.....

The foregoing is a correct description,
KOCKIMS
MELNICKA VILKA, LITVINSKOLAG
29-11-48

Dates of Survey while building { During progress of work in shops - - - } ✓
{ During erection on board vessel - - - }
Are the approved plans of boiler and superheater forwarded herewith..... 29.
(If not state date of approval.)
Total No. of visits..... 4.

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 donkey boilers have been under Special Survey and tested by the Surveyors to this Society as per Glasgow Report No. 72436 and have been installed onboard under my supervision and to my satisfaction.
The photostat copy of Glasgow Report No. 72436 is returned herewith.
One Exhaust Gas Economiser as per Rpt. 10 enclosed herewith, heats exhaust gas from top end of the main engine cylinders, has also been installed. The economiser is fitted with a double 1 1/4" safety valve, has been adjusted to the safe working pressure.

Exhaust Gas Economy
Survey Fee £ : 120:- } When applied for, 12-11-48.
Travelling Expenses (if any) £ : : } When received..... 19.....

A. Böttling
Engineer Surveyor to Lloyd's Register of Ships

Committee's Minute..... FRI. 17 DEC 1948
Assigned..... See F.E. mch. rpt.