

## REPORT ON BOILERS.

No. 300

Received at London Office 4 MAY 1951

Date of writing Report 2nd April 1951 When handed in at Local Office 2nd April 1951 Port of K I E L

No. in Survey held at K I E L Date, First Survey 20th March Last Survey 31st March 1951

Reg. Book. 64200 on the S.S. "JARAMA" Whale Factory Vessel (Number of Visits 3) Gross 6322 Tons Net 3666

Built at Port Glasgow By whom built R. Duncan & Co. Ltd. Yard No. When built 1920-7

Engines made at Glasgow By whom made D. Rowan & Co. Ltd. Engine No. When made 1920

Boilers made at Oslo By whom made Kwaerner Brug Boiler No. 269 272 When made 1949

Nominal Horse Power 573 MW Owners "Sopscoba" S.A. Port belonging to Port Gentil

## WHALE OIL BOILERS

## MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel (Letter for Record)

Total Heating Surface of Boilers Of Superheaters

Total for Register Book Is forced draught fitted Coal or Oil fired

No. and Description of Boilers Two Rotating whale oil digesters Working Pressure 60 lbs/sq " "

Tested by hydraulic pressure to 120 lbs/sq " Date of test 30/3/51 No. of Certificate Can each boiler be worked separately

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler 1 spring loaded 2" dia.

Area of each set of valves per boiler { per Rule 3.14 sq " Pressure to which they are adjusted 60 lbs/sq " Are they fitted with easing gear No

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 yes

Largest internal dia. of boilers 2797 mm Length 7015 mm Shell plates: Material SM steel Tensile strength

If fusion welded, state name of welding Firm Have all the requirements of the Rules for Class I vessels

been complied with Thickness 15 mm Are the shell plates welded or flanged welded Description of riveting: circ. seams { end inter

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

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

Percentage of strength of longitudinal joint { plate rivets combined

Thickness of butt straps { outer inner No. and Description of Furnaces in each Boiler

Material Tensile strength Smallest outside diameter

Length of plain part { top bottom Thickness of plates Description of longitudinal joint

Dimensions of stiffening rings on furnace or c.c. bottom

End plates in steam space: Material SM steel Tensile strength Thickness 29 & 35 mm Pitch of stays

How are stays secured

Tube plates: Material { front back Tensile strength Thickness

Mean pitch of stay tubes in nests Pitch across wide water spaces

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

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

in each Combustion chamber plates: Material

Tensile strength Thickness: Sides Back Top Bottom

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

Front plate at bottom: Material Tensile strength

Thickness Lower back plate: Material Tensile strength Thickness

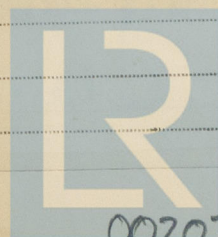
Pitch of stays at wide water space Are stays fitted with nuts or riveted over

Main stays: Material Tensile strength

Diameter { At body of stay or Over threads No. of threads per inch

Screw stays: Material Tensile strength

Diameter { At turned off part or Over threads No. of threads per inch



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Are the stays drilled at the outer ends..... Margin stays: Diameter { At turned off part..... or Over threads.....

No. of threads per inch.....

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

Pitch of tubes..... Manhole compensation: Size of opening in 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..... 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 or 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,..... Manufacturer.....

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 (If not state date of approval.)

Total No. of visits 3

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 press boilers, built in 1949 under the supervision of Det Norske Veritas, and originally intended for the Whale Factory vessel "KOSMOS V", have been examined internally, the details and scantlings have been verified with the approved plans and the vessels re-tested hydraulically to 120 lbs/□" with satisfactory results.

The press boilers have now been satisfactorily installed on board the S.S. "JARAMA" and it is submitted they be accepted for use on this classed vessel in accordance with the Secretary's letter of the 27th March, 1951.

For identification purposes the following original test marks have been retained :

NV	NV
No. 269	No. 272
Pr. tr. 120 lbs	Pr. tr. 120 lbs
Arb. tr. 60 lbs	Arb. tr. 60 lbs
2.4.49	6.4.49
MAT	O.S.

Survey Fee ... .. £ 10 : 0 : 0 } When applied for,.....19.....

Travelling Expenses (if any) £ : : } When received.....19.....

Committee's Minute THURS 14 JUN 1951

Assigned See Rpt. 9

Engineer Surveyor to Lloyd's Register of Shipping.