

# REPORT ON BOILERS.

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 KIEL

No. in Reg. Book 64200 Survey held at KIEL Date, First Survey 20th March Last Survey 30th March 1951

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

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

Engines made at Glasgow By whom made R. Rowan & Co. Ld. Engine No. 1920 When made 1920

Boilers made at Oslo By whom made Kaerner Brug Boiler No. 262 When made 1949

Nominal Horse Power 573 MW Owners "Sopecoba" 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 separators Working Pressure 60 lbs/□"

Tested by hydraulic pressure to 120 lbs/□" 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 1" diameter

Area of each set of valves per boiler { per Rule -- as fitted 0.785 □" Pressure to which they are adjusted 60 lbs/□" 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 2235 mm Length 3850 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 10 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 17 & 20 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 --

Are the stays drilled at the outer ends..... Margin stays: Diameter { At turned off part.....  
 { Over threads.....  
 No. of threads per inch.....  
 Tubes: Material..... External diameter { Plain..... Thickness { No. of threads per inch.....  
 { Stay.....  
 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,  
 .....

Dates of Survey while building { During progress of work in shops - - } Are the approved plans of boiler and superheater forwarded herewith.....  
 { During erection on board vessel - - } 20th, 22nd, 30th March, 1951 (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. 262	No. 263
Pr. tr. 120 lbs	Pr. tr. 120 lbs
Arb. tr. 60 lbs	Arb. tr. 60 lbs
2.5.49	2.3.49
O.S.	O.S.

Survey Fee ... .. £ 10 : 0 : 0 } When applied for.....19.....  
 Travelling Expenses (if any) £ : : } When received.....19.....

*J. Bowman*  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute THURS 14 JUN 1951

Assigned *See p. 9.*