

REPORT ON BOILERS.

No. 4743a

Received at London Office 23 JUN 1936

Date of writing Report 17/6 1936 When handed in at Local Office 17/6 1936 Port of Oslo

No. in Survey held at Book. Date, First Survey 21/10.35 Last Survey 14/6 1936 (Number of Visits 7)

on the whaling factory "TERJE VIKEN" Tons (Gross Net)

Built at Weser By whom built Deutsche Schiff und Maschinen G.G. Yard No. When built

Engines made at By whom made Engine No. When made

Boilers made at Oslo By whom made Kramer Brewery Boiler No. When made 1936

Owners United whalers Ltd. Manager: K. Ruge, Tinsberg Port belonging to London

Whale oil

MULTITUBULAR BOILERS - MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Vithoria (Mines) Ltd. in works Corp, Colville's Ltd. (Letter for Record see next page)

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

Description of Boilers 28 extractors for whale oil boiler Working Pressure 60 lbs.

Tested by hydraulic pressure to 120 lbs. Date of test see next page No. of Certificate Can each boiler be worked separately Yes

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler One single spring loaded

Area of each set of valves per boiler per Rule as fitted 2.24 in. Pressure to which they are adjusted Are they fitted with easing gear

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

Largest internal dia. of boilers 2250 mm. Length 3400 mm. Shell plates: Material S.M. steel Tensile strength 44-55 kg/cm²

Thickness 10 mm. Are the shell plates welded or flanged Description of riveting: circ. seams end S.R. lap

Long. seams D.R. lap Diameter of rivet holes in circ. seams 20 mm. Pitch of rivets 52.2 mm. 66.7 mm.

Percentage of strength of circ. end seams plate 61.6 rivets 41.4 Percentage of strength of circ. intermediate seam plate rivets

Percentage of strength of longitudinal joint plate 70. rivets 69.5 Working pressure of shell by Rules 5.6 kg/cm².

No. and Description of Furnaces in each Boiler Tensile strength Smallest outside diameter

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

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

End plates in steam space: Material S.M. steel Tensile strength 41.47 kg/cm² Thickness 17 mm. Pitch of stays 3300 mm. Working pressure by Rules 4.3 kg/cm².

How are stays secured Radius of disked ends 3300 mm. Working pressure by Rules 4.3 kg/cm².

End plates: Material front back Tensile strength Thickness Working pressure front back

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

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

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

Working pressure by Rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom

Tensile strength Are stays fitted with nuts or riveted over

Pitch of stays to ditto: Sides Back Top Working pressure by Rules Front plate at bottom: Material Tensile strength

Thickness Lower back plate: Material Tensile strength Thickness

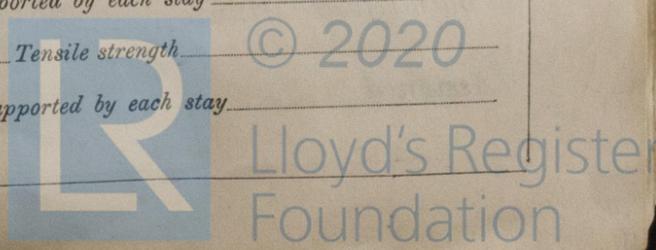
Pitch of stays at wide water space Are stays fitted with nuts or riveted over

Working Pressure Main stays: Material Tensile strength

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

Working pressure by Rules Screw stays: Material Tensile strength

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



5710-16M

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 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 _____ 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 22 inclusive for boilers been complied with _____

The foregoing is a correct description, *L. J. J. J.* Manufacturer

Dates of Survey { During progress of work in shops - - - 21/10, 14/12, 17/12, 1935
while building { During erection on board vessel - - - 19/2, 12/3, 13/3, 14/6, 1936

Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) 29/12, 34. See long letter E 27/12, 34

Total No. of visits 7

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. "Salghint", Reg. Rpt no 4637.

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

These boilers were examined during construction and on completion tested by hydraulic pressure to 120 lbs. per sq. inch.

The boilers were constructed in accordance with the approved plan. The steel material employed in the construction were made at approved works and were tested by the Society's Surveyors. The workmanship is good.

The boilers were marked: R. LLOYDSTON, 120 LBS. W.P. 60 LBS. and the following date of tests and initials:

3 off	21.10.35	P.E.	4 off	14.6.36	P.B.R.
2 "	14.12.35	P.E.			
3 "	17.12.35	P.E.			
10 "	19.2.36	P.B.R.			
3 "	12.3.36	P.B.R.			
3 "	13.3.36	P.E.			

Survey Fee Kw. 1120 : When applied for, 1936. 9D

Travelling Expenses (if any) 85. : When received, 28-7 1936 31/7

Haide Ferguson-Rohi
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 16 OCT 1936

Assigned see Bumer. 1829

