

# REPORT ON BOILERS.

No. 4125

19 SEP 1933

Received at London Office

ing Report 11/9/33 When handed in at Local Office 16/9 1933 Port of Oslo  
 Survey held at Oslo Date, First Survey 5/5 Last Survey 177 1933  
 on the A. S. "SVEND FOYN" (Oslo Rpt. 4111) (Number of Visits 7) Tons { Gross 14596 Net 8032  
 Built at Haverton Hill By whom built Turners Shipb. Co. Yard No. When built 1911  
 Made at Hartlepool By whom made Richardson, Wadsworth & Co. Engine No. When made "  
 Made at Oslo By whom made As Kvarner Bruig Boiler No. When made 1933  
 Horse Power Owners St. Helier Shipowners Ltd. Port belonging to London.

Oil extractors not to be put in R.B. as separate boilers as they are  
 TUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY. connected to the Rotating Exhaust  
104115 (Letter for Record E 24/1/33)

Constructors of Steel approved works  
 Heating Surface of Boilers Is forced draught fitted ☒ Coal or Oil fired ☒  
 Description of Boilers Oil extractors Working Pressure 60 lb./sq. in.  
 or only hydraulic pressure to 120 lb./sq. in. Date of test 24/1/33 No. of Certificate ✓ Can each boiler be worked separately yes  
 Firegrate in each Boiler ☒ No. and Description of safety valves to each boiler 1 off. single spring loaded, 1" dia.  
 each set of valves per boiler { per Rule as fitted 0.44 sq. in. Pressure to which they are adjusted ☒ Are they fitted with easing gear ☒  
 of donkey boilers, state whether steam from main boilers can enter the donkey boiler ☒  
 distance between boilers or uptakes and bunkers or woodwork ☒ Is oil fuel carried in the double bottom under boilers ☒  
 distance between shell of boiler and tank top plating ☒ Is the bottom of the boiler insulated ☒  
 internal dia. of boilers 2250 mm Length 3400 mm Shell plates: Material S.M. steel Tensile strength 28-35 tons/sq. in.  
10 mm Are the shell plates welded or flanged ind. pl. flanged Description of riveting: circ. seams { end single riveted inter. ✓  
double riveted lap Diameter of rivet holes in { circ. seams 20 mm Pitch of rivets { 52.2 mm  
 { long. seams " { 66.7  
 { plate 66.7% Percentage of strength of circ. intermediate seam { plate ☒ rivets ☒  
 { rivets 44.4% Working pressure of shell by Rules 5.6 kg./cm<sup>2</sup>  
 { plate 75.2%  
 { rivets 69.5%  
 { combined ✓

of butt straps { outer ☒ inner ☒ No. and Description of Furnaces in each Boiler  
 Tensile strength Smallest outside diameter  
 of plain part { top Thickness of plates { crown Description of longitudinal joint  
 { bottom { bottom  
 of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules Top 20 mm 17"  
 plates in steam space: Material S.M. steel Tensile strength 26-30 tons/sq. in. Thickness 17" Pitch of stays ☒  
 re stays secured ☒ Working pressure by Rules  
 plates: Material { front Tensile strength Thickness {  
 { back  
 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  
 strength Thickness: Sides Back Top Bottom  
 stays to ditto: Sides Back Top Are stays fitted with nuts or riveted over  
 g pressure by Rules Front plate at bottom: Material Tensile strength  
 ess Lower back plate: Material Tensile strength Thickness  
 of stays at wide water space Are stays fitted with nuts or riveted over  
 f Shig Pressure Main stays: Material Tensile strength  
 er { At body of stay, No. of threads per inch Area supported by each stay  
 { Over threads  
 g pressure by Rules Screw stays: Material Tensile strength  
 er { At turned off part, No. of threads per inch Area supported by each stay  
 { Over threads



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,  
**Pr. A/s KVAERNER BRUG**

Manufacturer.

Dates of Survey { During progress of work in shops - - } 2/5, 5/5, 10/5, 30/6, 6/6, 29/6  
 while building { During erection on board vessel - - } 1/7, 4/7, 5/7.

Are the approved plans of boiler and superheater forwarded herewith 20/7/33  
 (If not state date of approval) DISSENT

Total No. of visits 9

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. "C. G. Larsen, 'Vikingsen' No. 12.

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

The whale oil extractors have been constructed in accordance with the plans which were subsequently approved. The amendments indicated on the plans were already embodied in the actual extractors.

The extractors were examined during construction, tested by hydraulic pressure to 120 lbs./in<sup>2</sup> and found tight and sound at that pressure. The workmanship is good.

The cast steel materials and the steel plates employed have been made at approved steel works and tested by the Society's Surveyors.

The extractors were not examined under steam as steam is not raised on whale oil extractor range until the vessel is on the whaling grounds.

The extractors were marked

R Lloyd's Test.  
 120 LBS.  
 W.P. 60 LBS.  
 Date \_\_\_\_\_  
 P.B.E. R.E.

It is recommended that this extractor be classed in the Society's Register Book

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

*Phurde* *Perfor* *Loe*  
 Engineer Surveyor to Lloyd's Register of Ship

Committee's Minute TUE. 26 SEP 1933

TUE. 12 DEC 1933

Assigned



© 2020

Lloyd's Register Foundation