

REPORT ON BOILERS.

No. 4125

Received at London Office

10 SEP 1933

Report made on 17/9/33 When handed in at Local Office 16/9 33 Port of Oslo
Survey held at Oslo Date, First Survey 5th May Last Survey 6/7 5/7 1933
on the A.S. "SVEND FOYN", (Oslo Report No 4111) (Number of Visits 9) Tons {Gross 14596 Net 8032
Built at Haverton Hill on Tynes By whom built Furness S & Co. Ltd. Yard No. When built 1931
made at Hartlepool By whom made Richardsons Westgarth & Co. Engine No. When made 1931
made at Oslo By whom made Ms Kvarner Bruug Boiler No. When made 1933
Horse Power Owners St. Helier Shipowners Ltd. Port belonging to London

Rotating whale oil Boilers.

TUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel approved works (Letter for Record E. 20/7/33)
Heating Surface of Boilers Is forced draught fitted Coal or Oil fired
Description of Boilers Rotating whale oil boiler, six off. Working Pressure 60 lbs./sq. in.
by hydraulic pressure to 120 lbs./sq. in. Date of test 6/6, 29/6, 1/7, 4/7, 5/7 No. of Certificate Can each boiler be worked separately
Firegrate in each Boiler No. and Description of safety valves to each boiler 1 off, single spring-loaded, 2" dia.
each set of valves per boiler per Rule as fitted 2.24 kg/cm² 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 2600 mm Length 6897 mm Shell plates: Material S.M. steel Tensile strength 28.35 kg/cm²
13 mm Are the shell plates welded or flanged End pl. flanged Description of riveting: circ. seams {end single inter. double} Pitch of rivets {60.3 mm 75.2"}
D.R. single butt straps Diameter of rivet holes in {circ. seams 23.5 mm long. seams 23.5 mm} Percentage of strength of circ. intermediate seam {plate 61% rivets 82.5%}
Percentage of strength of circ. end seams {plate 61% rivets 41%} Working pressure of shell by Rules 6.5 kg/cm²
Percentage of strength of longitudinal joint {plate 68% rivets 133% combined} No. and Description of Furnaces in each Boiler
Thickness of plates {crown bottom} Description of longitudinal joint
Working pressure of furnace by Rules
Plates in steam space: Material S.M. steel Tensile strength 26-30 tons/in² Thickness 25 mm Pitch of stays
Working pressure by Rules
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}
Plates 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
Are stays fitted with nuts or riveted over
Working pressure by Rules Front plate at bottom: Material Tensile strength Thickness
Lower back plate: Material Tensile strength Thickness
Are stays fitted with nuts or riveted over
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

Working pressure by Rules _____ Are the stays drilled at the outer ends _____ Margin stays: Diameter { At turned off part, _____
 { Over threads _____
 No. of threads per inch _____ Area supported by each stay _____ Working pressure by Rules _____
 Tubes: Material _____ External diameter { Plain _____ Thickness { _____ No. of threads per inch _____
 { Stay _____
 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 di
 stays _____ Inner radius of crown _____ Working pressure by Rules _____
 How connected to shell _____ Size of doubling plate under dome _____ Diameter of rivet holes
 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 sha
 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 pressu
 Rules _____ Pressure to which the safety valves are adjusted _____ Hydraulic test Desc
 tubes _____, castings _____ and after assembly in place _____ Are drain cocks or val
 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,
 Pn. 4/s KWÄRNER BRUG

Dates of Survey { During progress of work in shops - - } 2/5, 5/5, 10/5, 20/6, 4/6, 29/6
 { During erection on board vessel - - - } 11/7, 4/7, 5/7
 Are the approved plans of boiler and superheater forwarded herewith _____ E
 (If not state date of approval) T
 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.A. Larsen, 'Kornett', 'Kew', 'Tafelberg', 'Vikingen'

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

The whole oil boilers have been constructed in accordance with the plans which were subsequently approved. The amendments indicated on the plans already embodied in the actual boilers. The boilers were examined during construction, tested by hydraulic pressure to 120 lb./in² and found tight and sound at that pressure. The workmanship is good.
 The cast steel material and the steel plates employed have been used at approved works and tested by the Society's Surveyors.
 The boilers were marked:

B
 Lloyd's Test
 120 lb
 WP at 100.
 Date
 P.B.R. O.P.E.

It is recommended that the boilers be entered in the Society's Register

The boilers were not examined under steam as steam is not raised until arrival on the wharf

Survey Fee K [£] 480:-	:	When applied for, 21/7	19 33
Travelling Expenses (if any) £ 72.-	:	When received, 21/8	19 33

Phide
 Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute TUE. 26 SEP 1933 TUE. 12 DEC 1933

Assigned

