

## REPORT ON BOILERS.

No. 41602

Received at London Office

27 OCT 1933

Writing Report 24/10 1933 When handed in at Local Office 24/10 1933 Port of Oslo

Size of open Survey held at Oslo Date, First Survey 30/1.31 Last Survey 6/2. 1931

on the S. SVEND FOYN (Number of Visits 4) Tons { Gross 14596 Net 8032

Built at Hamtun By whom built Jansen S.B. & Co. Yard No. When built 1931

To. and diam made at Glasgow By whom made Richardson, Westgate & Co. Ld. Engine No. When made 1931

oil extractor made at Oslo By whom made Kvaerner Pump A/S Boiler No. When made 1931

ret holes and Horse Power Owners St. Helier Shipowners Co. Port belonging to London.

ole oil extractors

TUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

ter be shut

cturers of Steel approved marks (Letter for Record)

ng pressure heating Surface of Boilers Is forced draught fitted Coal or Oil fired

ulic test and Description of Boilers 8 wheel oil extractor Working Pressure 60 lb.

ks or valve by hydraulic pressure to 120 lb. Date of test 30/1.31 No. of Certificate Can each boiler be worked separately

f Firegrate in each Boiler No. and Description of safety valves to each boiler 1 off single spring loaded 1" dia

f 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

tion, of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Manuf distance between boilers or uptakes and bunkers or woodwork Is oil fuel carried in the double bottom under boilers

st distance between shell of boiler and tank top plating Is the bottom of the boiler insulated

t internal dia. of boilers 2250 mm Length 2600 mm Shell plates: Material S.M. steel Tensile strength 28-35

ess 10 mm Are the shell plates welded or flanged end plate flanged Description of riveting: circ. seams { end single riv. inter. 52.2 mm. 66 mm. ✓

E-ams double rivets Diameter of rivet holes in { circ. seams 20 mm. long. seams 20 mm. Pitch of rivets { 52.2 mm. 66 mm. ✓

tage of strength of circ. end seams { plate 66.7 rivets 44.4 Percentage of strength of circ. intermediate seam { plate 75.2 rivets 69.5 combined

ones tage of strength of longitudinal joint { plate 75.2 rivets 69.5 combined Working pressure of shell by Rules 5.6 kg/cm<sup>2</sup>

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

Tensile strength Smallest outside diameter

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

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

lates in steam space: Material S.M. steel Tensile strength 26-30 Thickness Top 20 mm. Bottom 17 mm. Pitch of stays

re stays secured Working pressure by Rules

plates: Material { front back Tensile strength Thickness

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

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

re 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

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

ng 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

of Shipping Pressure Main stays: Material Tensile strength

ter { At body of stay, or Over threads No. of threads per inch Area supported by each stay

ng pressure by Rules Screw stays: Material Tensile strength

ter { At turned off part, or Over threads No. of threads per inch Area supported by each stay

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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 \_\_\_\_\_  
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 \_\_\_\_\_  
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 \_\_\_\_\_  
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 \_\_\_\_\_  
Rules \_\_\_\_\_ Pressure to which the safety valves are adjusted \_\_\_\_\_ Hydraulic test \_\_\_\_\_  
tubes \_\_\_\_\_, castings \_\_\_\_\_ and after assembly in place \_\_\_\_\_ Are drain cocks or valves \_\_\_\_\_  
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 { During progress of work in shops - - - 30/1, 3/2, 5/2 = 6/2.1931 Are the approved plans of boiler and superheater forwarded herewith \_\_\_\_\_  
while building { During erection on board vessel - - - (If not state date of approval.) 4/7.1930.  
Total No. of visits 4

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.)

There were six extractors have been constructed in accordance with the approved plans. The extractors examined during construction and tested by hydraulic pressure to 120 lb per sq inch and found in order. The workmanship is good.

The extractors were marked:

Leads test  
120 lb.  
W.P. 60 lb.  
30/1, 3/2, 5/2 = 6/2.31  
P.B.R. & P.E.

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

Per John. Roe  
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute TUE. 12 DEC 1933

Assigned See Bl Ref. 4160



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