

REPORT ON BOILERS.

No. 4085

11 JUL 1933

Received at London Office

5a.

Writing Report

When handed in at Local Office

Port of Oslo

Survey held at Oslo

Date, First Survey 10/6

Last Survey 28/6

1933

on the

s/s

"Kosmos"

(Number of Visits 4)

Gross 17801

Net 11789

Built at Belfast

By whom built Workman Clark

Yard No.

When built 1929

Made at

Belfast

By whom made

Engine No.

When made 1929

Made at

Oslo

By whom made A/S Kampens Mekan. Verhsted

Boiler No.

When made 1933

Horse Power

Owners Stoffmeyerseksl. Kosmos A/S

Port belonging to Sandefjord

WHALE OIL APPARATUS.

TUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel approved works

(Letter for Record E 12/4/33
29/8/33)

Heating Surface of Boilers

Is forced draught fitted

Coal or Oil fired

Description of Boilers

2 whale oil apparatus, rotating boilers

Working Pressure

5 kg/cm²

Tested by hydraulic pressure to 10 kg

Date of test 10-14-22-28/6-1933

No. of Certificate

Can each boiler be worked separately

Firegrate in each Boiler

No. and Description of safety valves to each boiler

Number of valves per boiler

per Rule

as fitted 2" diam.

Pressure to which they are adjusted 3.14 in²

Are they fitted with easing gear

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

Minimum distance between boilers or uptakes and bunkers or woodwork

Is oil fuel carried in the double bottom under boilers

Minimum distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

Internal dia. of boilers 2600 mm

Length 6300 mm

Shell plates: Material steel

Tensile strength 28-30

Are the shell plates welded or flanged one end flanged

Description of riveting: circ. seams

end single butt strap
inter. single butt strap

Shape of rivets single, butt shape

Diameter of rivet holes in

circ. seams 20 mm

long. seams 20 mm

Pitch of rivets 67 mm

Percentage of strength of circ. end seams

plate 58.4

rivets 38.6

Percentage of strength of circ. intermediate seam

plate 58.4

rivets 65.8

Percentage of strength of longitudinal joint

plate 70. 1/2

rivets 55. 1/2

Working pressure of shell by Rules 67

5.05 kg./cm²

Thickness of butt straps

outer 16 mm

inner

No. and Description of Furnaces in each Boiler

Material S.M. Steel

Tensile strength

Smallest outside diameter

Thickness of plates

top

bottom

Description of longitudinal joint

Provisions of stiffening rings on furnace or c.c. bottom

Working pressure of furnace by Rules

Material S.M. Steel

Tensile strength 26-30 tons/in²

Thickness 25 mm

Pitch of stays

Are stays secured

Working pressure by Rules

Material

front

back

Tensile strength

Thickness

Pitch of stay tubes in nests

Pitch across wide water spaces

Working pressure

front

back

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

Lower back plate: Material

Tensile strength

Thickness

Are stays fitted with nuts or riveted over

Working Pressure

Main stays: Material

Tensile strength

At body of stay,

No. of threads per inch

Area supported by each stay

Working pressure by Rules

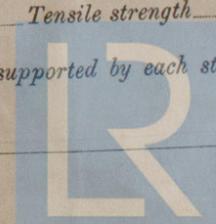
Screw stays: Material

Tensile strength

At turned off part,

No. of threads per inch

Area supported by each stay



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Lloyd's Register
K 45-0132

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 _____

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 _____

How connected to shell _____ Inner radius of crown _____ Working pressure by Rules _____

Size of doubling plate under dome _____ Diameter of rivet holes and 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 from the boiler _____

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 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. pr. A/s Kampens Versted *L. Thomsen* Manufacturer

Dates of Survey { During progress of work in shops - - } 10/6, 14/6, 22/6 = 28/6. 1933. Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) approved 28/6. 1933. 12/4 =

while building { During erection on board vessel - - - } 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.)

Then whole oil apparatus (boiler) have been examined during construction at Kampens Versted, Oslo and subsequently tested by hydraulic pressure to 10 kg per cm², and the workmanship found good. The cast steel material delivered from Raufors Anstalten, tested and found in order. The steel plates delivered from approved works, tested by the Society's surveyors and found in order.

The boilers have been marked: stays tub, 10 atm. W.P 4.5 atm, dt 10-14-22 and 28/6 and initials P.B.R. or P.E. as per attached reports Rps 10 date 16th & 29th June 1933.

The safety valves were not adjusted now, the boilers not being put under steam until the vessel's arrival on the whaling grounds.

It is recommended that this vessel's whale oil boilers be classed in the Society's Register Book

Survey Fee k. 360.- : When applied for, 15/6 = 7/6 1933.

Travelling Expenses (if any) k. 48.- : When received, 19

Perdue *Perjoen*
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute TUE. 12 DEC 1933

FRI. 28 SEP 1933

TUE. 16 OCT 1934

TUE. 23 OCT 1934

FRI. 5 JUL 1935

TUE. 26 NOV 1935

Assigned