

REPORT ON BOILERS.

No. 9684
21 AUG 1935

Received at London Office

Date of writing Report 8th August 1935 When handed in at Local Office

Port of Copenhagen

No. in Reg. Book. Survey held at Copenhagen & Odense

Date, First Survey 9th January Last Survey 4/8

38752 on the Twin Sc. Motor Trawler "KROSSFONN"

(Number of Visits)

Gross 9323
Net 5550

Master Built at Odense

By whom built

F. Odense Skalskildsmøst
red. A. P. Møller

Yard No. 56

When built 1935

Engines made at Copenhagen

By whom made

A. B. Burmeister & Wain
Haskind & Skierlygger

Engine 2322

When made 1935

Boilers made at Copenhagen

By whom made

A. B. Burmeister & Wain

Boiler No. 1887-8

When made 1935

Nominal Horse Power 728

Owners Rederiaktieselsk. Dalfourn

Port belonging to Stavanger.

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Stays: Colville Slaggen, Tubes: Stuart & Lloyds, Telloms, Ricks: Lunde & Lunde Epm.

Manufacturers of Steel Plates: Colville Slaggen, The Steel Co of Scotland & Furnaces: The Brownside Boiler Works

Total Heating Surface of Boilers Oil fired 126 m² Exhaust fired 58.3 m² Is forced draught fitted yes Coal or Oil fired Oil exhaust gas

No. and Description of Boilers 2 off cylindrical, multitubular, horizontal

Working Pressure 160 lbs

Tested by hydraulic pressure to 290 lbs Date of test 26.4.35 No. of Certificate 569-570 Can each boiler be worked separately yes

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

2 off direct spring loaded & 3 1/8" diam

Area of each set of valves per boiler

per Rule

14.30"

as fitted

17.90"

Pressure to which they are adjusted 160 lbs

Are they fitted with easing gear

yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no main boiler

Smallest distance between boilers or uptakes and bunkers or woodwork no woodwork Is oil fuel carried in the double bottom under boilers yes

Smallest distance between shell of boiler and tank top plating boiler placed on platform deck Is the bottom of the boiler insulated yes

Largest internal dia. of boilers 36.60 m Length 31.70 m Shell plates: Material S. cl. Steel Tensile strength 29.9-30.74/0

Thickness 23 m

Are the shell plates welded or flanged

no

Description of riveting: circ. seams

double riveted

Long. seams double butt straps, 3/16" diam

diameter of rivet holes in

circ. seams 27 m

long. seams 25 m

Pitch of rivets

79.25 m

Percentage of strength of circ. end seams

plate

66

rivets

51.4

Percentage of strength of circ. intermediate seam

plate

86

rivets

92

Percentage of strength of longitudinal joint

plate

86

rivets

92

combined

90

Working pressure of shell by Rules 164 lbs.

Thickness of butt straps

outer

23 m

inner

23 m

No. and Description of Furnaces in each Boiler

2 off Deightens, corrugated.

Material S. cl. Steel

Tensile strength

28.2 4/0

Smallest outside diameter 888 m

Length of plain part

top

bottom

Thickness of plates

crown

bottom

12 m

Description of longitudinal joint

none

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

Working pressure of furnace by Rules

194 lbs.

End plates in steam space: Material S. cl. Steel

Tensile strength

28.0-28.2 4/0

Thickness

25 m

Pitch of stays

490 x 270 m

How are stays secured Secured in both plates, nuts inside & outside

Working pressure by Rules

165 lbs/0

Tube plates: Material

front

S. cl. steel

back

S. cl. steel

Tensile strength

28.0-28.2 4/0

Thickness

25 m

Pitch of stays

19 m

Mean pitch of stay tubes in nests

227 m

Pitch across wide water spaces

355 m

Working pressure

front 220 lbs

back 252 lbs

Girders to combustion chamber tops: Material S. cl. Steel

Tensile strength

32.0 4/0

Depth and thickness of girder

at centre 160 x (2 x 19) m

Length as per Rule

686 m

Distance apart

215 m

No. and pitch of stays

in each 2 off - 228 m

Working pressure by Rules

170 lbs

Combustion chamber plates: Material

S. cl. Steel

Tensile strength

28.7-29.0 4/0

Thickness: Sides

16 m

Back

15 m

Top

16 m

Bottom

19 m

Pitch of stays to ditto: Sides

215 x 228 m

Back

190 x 190 m

Top

225 x 228 m

Are stays fitted with nuts or riveted over

in end plates

Working pressure by Rules

215 lbs

Front plate at bottom: Material S. cl. Steel

Tensile strength

28.0-28.2 4/0

Thickness

25 m

Lower back plate: Material

S. cl. Steel

Tensile strength

28.0-28.2 4/0

Thickness

25 m

Pitch of stays at wide water space

2 x 515 m

Are stays fitted with nuts or riveted over

filled with nuts

Working Pressure

212 lbs

Main stays: Material

S. cl. Steel

Tensile strength

28-32 tons/0

Diameter

At body of stay, 2 3/4"

or

2 1/2"

No. of threads per inch

11

Area supported by each stay

ca 140000 m²

Working pressure by Rules

190 lbs

Screw stays: Material

S. cl. Steel

Tensile strength

28 tons/0

Diameter

At turned off part, 1 1/2"

or

1 1/2"

No. of threads per inch

11

Area supported by each stay

36100 m²

Working pressure by Rules

190 lbs

Screw stays: Material

S. cl. Steel

Tensile strength

28 tons/0

Diameter

At turned off part, 1 1/2"

or

1 1/2"

No. of threads per inch

11

Area supported by each stay

36100 m²

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with yes

The foregoing is a correct description, yes
BURMEISTER & WAINMAN CO. NY
Manufacturer.

Dates of Survey while building	{ During progress of work in shops - - -	9/1-13/2-2/3-9/3-18/3-29/3-15/4-23/4-26/4 1935	{ Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval)	yes
	{ During erection on board vessel - - -	2/7-18/7-26/7-29/7-2/8 1935	Total No. of visits	14.

Two "Eureka" feed pumps, sampler 8" x 6" x 15" and a steam injector has been fitted.

See minute on
F.E. Rpt.

Lloyd's Register
Foundation