

REPORT ON BOILERS.

No. 21431 A.

Received at London Office

49 NOV 1946

Port 14th Nov 1946 When handed in at Local Office 18th Nov 1946 Port of LEITH

held at LEITH

Date First Survey 3rd JUNE

Last Survey 2nd NOVEMBER 1946

Steam Trawler "HEINI HAVREKI" Ex "MÜNCHEN" Ex "FROYEN"

(Number of Visits Six)

Gross 306
Tons Net 116

Built at WESERMÜNDE - G

By whom built J.C. TECKLENBURG A-G

Yard No. 407 When built 1926

D^o

By whom made

D^o

Engine No. 1217 When made 1926

D^o

By whom made

D^o

Boiler No. 635 When made 1926

Power 87 MN

Owners ANTONIUS SPRENSSEN ESQ.

Port belonging to HUSAVIK

BULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

ion Mark

ion Mark of Steel NOT KNOWN

ate of Test Surface of Boilers 1720 sq. ft.

Is forced draught fitted NO

(Letter for Record S)

Coal or Oil fired COAL

ption of Boilers ONE - SINGLE ENDED RETURN TUBE

Working Pressure 215 lbs/sq. in.

aulic pressure to 240 lbs/sq. in. Date of test 2nd OCT. 1946

No. of Certificate

Can each boiler be worked separately

ate in each Boiler 57 sq. ft.

No. and Description of safety valves to each boiler TWO - DIRECT SPRING LOADED

et of valves per boiler

per Rule 9.55 sq. in.

Pressure to which they are adjusted 217 lbs/sq. in.

Are they fitted with easing gear YES

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

ce between boilers or uptakes and bunkers or woodwork 6 1/2" BLK/BUNKER

Is oil fuel carried in the double bottom under boilers

ce between shell of boiler and tank top plating OPEN FLOORS

Is the bottom of the boiler insulated NO

id dia. of boilers 12'-8 1/2" Length 10'-5"

Shell plates: Material S

Tensile strength 29/33 T/sq. in.

ASSUMED

Are the shell plates welded or flanged NO

Description of riveting: circ. seams

end D.R. LAP

R.D.B.S.

Diameter of rivet holes in

circ. seams 1 1/4"

Pitch of rivets 3 1/2"

strength of circ. end seams

plate 61.5% rivets 47.9%

Percentage of strength of circ. intermediate seam

plate 84.3% rivets 91.2%

strength of longitudinal joint

plate 84.3% rivets 91.2%

Working pressure of shell by Rules

219 lbs/sq. in.

214

utt straps

outer 1 1/8" inner 1 1/4"

No. and Description of Furnaces in each Boiler

3 - CORRUGATED (APPROX. MORISON TYPE)

Tensile strength 26/30 T/sq. in. ASSUMED

Smallest outside diameter 3'-0 5/8"

n part

top 9 1/4" bottom 11 1/2"

Thickness of plates

1 1/16"

Description of longitudinal joint FORGE WELDED

stiffening rings on furnace or c.c. bottom NOT FITTED

Working pressure of furnace by Rules

276 lbs/sq. in.

steam space: Material S

Tensile strength 26/30 T/sq. in. ASS²

Thickness 1 1/4"

Pitch of stays 16 1/2" x 16"

secured NUTS INSIDE & OUTSIDE

Working pressure by Rules

276 lbs/sq. in.

Material

front S back S

Tensile strength 26/30 T/sq. in. ASSUMED

Thickness 1 1/8"

15 1/8"

stay tubes in nests 9"

Pitch across wide water spaces 16 3/8"

Working pressure

front 222 lbs/sq. in. back 394 lbs/sq. in.

combustion chamber tops: Material S

Tensile strength 26/30 T/sq. in. ASSUMED

Depth and thickness of girder

- 9 1/2" x 7/8"

Length as per Rule 2'-3 3/4"

Distance apart 8"

No. and pitch of stays

7 1/4"

Working pressure by Rules

276 lbs/sq. in.

Combustion chamber plates: Material S

26/30 T/sq. in. ASSUMED

Thickness: Sides 3/4"

Back 3/4"

Top 3/4"

Bottom 7/8"

ditto: Sides

7 1/2" x 8" (MAX)

Back 7 1/4" x 9" (MAX)

Top 7 1/4" x 8"

Are stays fitted with nuts or riveted over NUTS

ure by Rules

297 lbs/sq. in.

Front plate at bottom: Material S

Tensile strength 26/30 T/sq. in. ASSUMED

8"

Lower back plate: Material S

Tensile strength 26/30 T/sq. in. ASS²

Thickness 1 1/8"

at wide water space 13" x 8" (r = 20")

Are stays fitted with nuts or riveted over

NUTS

Register ure 294 lbs/sq. in.

Main stays: Material S

Tensile strength 28 T/sq. in. ASSUMED

dy of stay, 3"

threads

No. of threads per inch

NOT COARSER THAN 6 T.P.I.

Area supported by each stay 16 1/2" x 16"

ure by Rules

254 lbs/sq. in.

Screw stays: Material S

Tensile strength 28 T/sq. in. ASSUMED

ned off part, 1 5/8"

threads

No. of threads per inch

NOT COARSER THAN 9 T.P.I.

Area supported by each stay 7 1/4" x 9" (MAX)

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Working pressure by Rules 232 lb/sq in Are the stays drilled at the outer ends No Margin stays: Diameter { At turned off part, 17/8" or Over threads }
No. of threads per inch 9 TPI Area supported by each stay 12 7/16" x 8" (MAX) Working pressure by Rules 214 lb/sq in
Tubes: Material S External diameter { Plain 3 3/4" Stay 3 1/4" Thickness { 8 WG 5/16" No. of threads per inch 9
Pitch of tubes 4 1/2" WING CC 4 1/4" CR CC Working pressure by Rules 230 lb/sq in (PLAIN) Manhole compensation: Size of opening in
shell plate 15 1/2" x 11 1/2" Section of compensating ring 16 1/2" x 1 1/4" No. of rivets and diameter of rivet holes 42 - 1 1/4"
Outer row rivet pitch at ends 3" Depth of flange if manhole flanged ✓ Steam Dome: Material S
Tensile strength 26/30 T/D ASSUMED Thickness of shell 1/2" Description of longitudinal joint D.R. LAP
Diameter of rivet holes 7/8" Pitch of rivets 3" Percentage of strength of joint { Plate 70.8% Rivets 70.8%
Internal diameter 2'-7" Working pressure by Rules 287 lb/sq in Thickness of crown 1" No. and diameter of
stays NONE Inner radius of crown ✓ Working pressure by Rules ✓
How connected to shell D.R. LAP Size of doubling plate under dome NONE Diameter of rivet holes and pitch
of rivets in outer row in dome connection to shell 7/8" - 3 1/4"

Type of Superheater NONE FITTED 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 YES

The foregoing is a correct description,

Manufacturer

Dates { During progress of work in shops - ✓ Are the ~~approved~~ plans of boiler and superheater forwarded herewith YES
while building { During OVERHAUL on board vessel - 3/6 17/9 23/9 2/10 23/10 2/11 Total No. of visits SIX
(If not state date of approval)

Is this Boiler a duplicate of a previous case NO If so, state Vessel's name and Report No. ✓

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This Boiler was built under the
Survey of Germanischer Lloyd, it has now been examined and placed in good and
safe working condition, the scamlings have been lifted as accurately as
possible from place, no drawing being available, and the above Working Pressure
etc., have been calculated, assuming the various tensile strengths. In
my opinion the Boiler is eligible to be classed by this Society with a working
pressure of 215 lb/sq in and letter for record (S). The original German work
pressure was 15 Atmospheres (approx 220 lb/sq in).

Survey Fee SEE MACHX REPORT : When applied for, 19
Travelling Expenses (if any) £ ✓ : When received, 19

John C. Benth
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute WED 18 JUN 1947

Assigned See minute on
fe. rll

For minute
see det 25. July 1947

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Foundation