

REPORT ON BOILERS.

No. 10742

Received at London Office

DEC 10 1938

Date of writing Report

29/11

1938

When handed in at Local Office

19

Port of Copenhagen

No. in Book.

Survey held at Copenhagen & Odense

Date, First Survey 11th June

Last Survey 24th March 1938

364 on the Single Se. Motor Vessel "HULDA MERSE"

(Number of Visits 12)

Gross 5601
Tons Net 3390

Built at Odense

By whom built E. Odense Skibstjenest

Hull No. 75

When built 1938

Engines made at Copenhagen

By whom made J. B. Møller & Søn

Engine No. 2834

When made 1938

Boilers made at Copenhagen

By whom made J. Smith, Skjold & Hillebrand

Boiler No. 719

When made 1938

Indicated Horse Power

Owners J. S. Sørensen & Søn of 1912 & S

Port belonging to Copenhagen

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Tubes: Stilledelevskovs Stålmønter & Søn

Plates: Deutsche Rohrenwerke & Søn, Werk Tübingen. Rivets: Flemer Bros. Copenhagen

Heating Surface of Boilers

60 m²

Is forced draught fitted no

Coal or Oil fired exhaust gas

Description of Boilers

1 off vertical, multitubular

Working Pressure 7 kg/cm²

Tested by hydraulic pressure to

4 kg/cm²

Date of test 8.8.38

No. of Certificate 628

Can each boiler be worked separately yes

No. of Firegrate in each Boiler

No. and Description of safety valves to each boiler

2 off 2" diam. direct spring loaded

Pressure of each set of valves per boiler

per Rule

2280 kg/cm²

as fitted

4057 kg/cm²

Pressure to which they are adjusted 100 kg/cm²

Are they fitted with easing gear yes

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

no main boilers

Least distance between boilers or uptakes and bunkers or woodwork

Is oil fuel carried in the double bottom under boilers

Least distance between shell of boiler and tank top plating

boiler placed in funnel

Is the bottom of the boiler insulated

Least internal dia. of boilers

2000 mm

Length 2182 mm

Shell plates: Material

S. M. Steel

Tensile strength

44/50 kg/cm²

Are the shell plates welded or flanged

no

Description of riveting: circ. seams

end

single

Diameter of rivet holes in

circ. seams

20.5 mm

long. seams

20.5 mm

Pitch of rivets

45 mm

90 mm

Percentage of strength of circ. end seams

plate

54.5

rivets

Percentage of strength of circ. intermediate seam

plate

54.5

rivets

Percentage of strength of longitudinal joint

plate

77.2

rivets

combined

81.8

Working pressure of shell by Rules

118 kg/cm²

Thickness of butt straps

outer

11 mm

inner

11 mm

No. and Description of Furnaces in each Boiler

Tensile strength

Smallest outside diameter

Thickness of plates

top

bottom

Thickness of plates

crown

bottom

Description of longitudinal joint

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

Working pressure of furnace by Rules

Plates in steam space: Material

Tensile strength

Thickness

Pitch of stays

Are stays secured

Working pressure by Rules

Plates: Material

front

back

S. M. Steel

Tensile strength

4/47 kg/cm²

Thickness

19 mm

Pitch of stay tubes in nests

Pitch across wide water spaces

D = 405 mm

Working pressure

front

back

10.35 kg/cm²

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

Strength

Thickness: Sides

Back

Top

Bottom

Stays to ditto: Sides

Back

Top

Are stays fitted with nuts or riveted over

Pressure by Rules

Front plate at bottom: Material

Tensile strength

Lower back plate: Material

Tensile strength

Thickness

Stays at wide water space

Are stays fitted with nuts or riveted over

Pressure

Main stays: Material

Tensile strength

At body of stay, or Over threads

No. of threads per inch

Area supported by each stay

Pressure by Rules

Screw stays: Material

Tensile strength

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 *S. C. H. Steel* External diameter { Plain *8 9/16 in* Thickness *1/4 in* No. of threads per inch *11*
Pitch of tubes *120 in* Working pressure by Rules *8.5 kg/cm²* Manhole compensation: Size of opening *40 x 20.5 in*
shell plate *320 x 420 in* Section of compensating ring *flat 15 in thick* No. of rivets and diameter of rivet holes *40 x 20.5 in*
Outer row rivet pitch at ends *100 in* 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 Rivet
Internal diameter - Working pressure by Rules - Thickness of crown - No. and diameter of rivets
stays - Inner radius of crown - Working pressure by Rules - Diameter of rivet holes and
How connected to shell - Size of doubling plate under dome -
of rivets in outer row in dome connection to shell -

Type of Superheater

Number of elements - Material of tubes - Manufacturers of { Tubes Steel forgings Steel castings
Material of headers - Tensile strength - Internal diameter and thickness of tubes
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 - forgings and castings - and after assembly in place - Are drain cocks
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, *yes*
SMITH, MIND & HÜTTEMEIER Manuf

Dates of Survey { During progress of work in shops - - - *11/6-4/7-14/7-18/7-8/8-1938* Are the approved plans of boiler and superheater forwarded herewith *yes*
while building { During erection on board vessel - - - *27/9-11/10-17/10-24/10-2/11-4/11-24/11-1938* Total No. of visits *12*

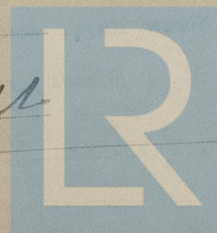
Is this Boiler a duplicate of a previous case *no* If so, state Vessel's name and Report No.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *This boiler has been constructed and fitted on board the vessel under special survey in accordance with the Rules, the approved plans and the Section letters.*
The material used in construction has been tested as required by the Rules and the workmanship is good

Survey Fee ... *£ 94.08* When applied for, *9.12.1938*
Travelling Expenses (if any) *£ 4.70* When received, *16.1.1939*

J. Langhila
Engineer Surveyor to Lloyd's Register of

Committee's Minute *TUE 31 JAN 1939*
Assigned *See FE machy rth*



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