





Working pressure by Rules *17.0 kg/cm<sup>2</sup>* Are the stays drilled at the outer ends *No* Margin stays: Diameter *2"* (At turned off part, or Over threads)

No. of threads per inch *9* Area supported by each stay *64000 1/4"* Working pressure by Rules *17.5 kg/cm<sup>2</sup>*

Tubes: Material *Swedish Steel* External diameter *64 3/4"* Thickness *8* No. of threads per inch *9*

Pitch of tubes *95 1/4"* Working pressure by Rules *21.0 kg/cm<sup>2</sup>* Manhole compensation: Size of opening *42 1/2" - 28 1/4"*

Shell plate *390 1/4" x 490 1/4"* Section of compensating ring *Flanged* No. of rivets and diameter of rivet holes *42 1/2" - 28 1/4"*

Outer row rivet pitch at ends *170 1/4"* Depth of flange if manhole flanged *3"* Steam Dome: Material *Swedish Steel*

Tensile strength *50000* Thickness of shell *1/2"* Description of longitudinal joint *Butt*

Diameter of rivet holes *1/4"* Pitch of rivets *1 1/2"* Percentage of strength of joint *100*

Internal diameter *390 1/4"* Working pressure by Rules *21.0 kg/cm<sup>2</sup>* Thickness of crown *1/2"* No. and diameter of rivets *42 1/2" - 28 1/4"*

Stays *4* Inner radius of crown *1/2"* Working pressure by Rules *21.0 kg/cm<sup>2</sup>*

How connected to shell *By stays* Size of doubling plate under dome *1/2"* Diameter of rivet holes and pitch *1/4" x 1 1/2"*

of rivets in outer row in dome connection to shell *4*

Type of Superheater *Water tube* Manufacturers of *Swedish Steel*

Number of elements *4* Material of tubes *Swedish Steel* Internal diameter and thickness of tubes *64 3/4" x 8"*

Material of headers *Swedish Steel* Tensile strength *50000* Thickness *1/2"* Can the superheater be shut off *Yes*

the boiler be worked separately *Yes* Is a safety valve fitted to every part of the superheater which can be shut off from the boiler *Yes*

Area of each safety valve *100* Are the safety valves fitted with easing gear *Yes* Working pressure as tested *21.0 kg/cm<sup>2</sup>*

Rules *Yes* Pressure to which the safety valves are adjusted *21.0 kg/cm<sup>2</sup>* Hydraulic test pressure *21.0 kg/cm<sup>2</sup>*

tubes *Swedish Steel* forgings and castings *Swedish Steel* and after assembly in place *Yes* Are drain cocks *Yes*

valves fitted to free the superheater from water where necessary *Yes*

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

The foregoing is a correct description, *Yes*

HELSENGORS JERNSKIPS- OG MASKINBYGGERI

Dates of Survey *1938: 7/1-12/1-18/1-20/1-21/1-25/1-28/1* Are the approved plans of boiler and superheater forwarded herewith *Yes*

while building *During progress of work in shops - 2/2-3/2-9/2-14/2-15/2-16/2-18/2-22/2-23/2* (If not state date of approval.)

board vessel *During erection on board vessel - 8/6-17/6-24/6-9/7-12/7-38*

Total No. of visits *35*

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

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) This donkey boiler has been built by Messrs Helsingors Jernskips- og Maskinbyggeri, Copenhagen, and installed on board by the builders Messrs Odense Skibsverft, under special survey and in accordance with the requirements of the Rules, the approved plan and the Secretary's letter E dated 31.12.1927 and 12.4.1928. The material has been tested as required by the Rules as per certificates produced and the workmanship is good.

Recommend the vessel to have notation of 2 DB 180 lb in the Register Book

Survey Fee *£ 284.48* When applied for *1.8.38*

Travelling Expenses (if any) *£ :* When received *31/8.38*

*Philip L. L. L.*  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute *TUE. 9 AUG 1938*

Assigned *See F.E. Mchey rpt.*