

## REPORT ON BOILERS.

No. 6803.

Received at London Office

SAT. 31 MAY. 1924

Date of writing Report 9/5 1924 When handed in at Local Office Elminore Port of Copenhagen  
 No. in Survey held at Elminore Date, First Survey 3/10 1919 Last Survey 9/4 1924  
 Reg. Book. 10031 on the Ship S. "M. C. HOLM" (Number of Visits 23) Gross 28/3.50  
 Master Elminore Built at Elminore By whom built Helsingør Jernskibs-og Maskinbyggeri When built 1924  
 Engines made at Elminore By whom made Helsingør Jernskibs-og Maskinbyggeri When made 1924  
 Boilers made at Elminore By whom made Helsingør Jernskibs-og Maskinbyggeri When made 1924  
 Registered Horse Power 1200 Owners Dpskolek. Norden (P. B. 1924) Port belonging to Copenhagen

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel STAYS: FRODINGHAM IRON &amp; STEEL WORKS.

(Letter for record S) Total Heating Surface of Boilers 1113 0' Is forced draft fitted No No. and Description of Boilers 1 off, single end, return tubular Working Pressure 80 lbs. Tested by hydraulic pressure to 360 lbs. Date of test 9/2 24  
 No. of Certificate 441 Can each boiler be worked separately ✓ Area of fire grate in each boiler 32.5 0' No. and Description of safety valves to each boiler 2 off, directly spring loaded Area of each valve 4.9 0" Pressure to which they are adjusted 180 lbs. per sq. in.  
 Are they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No  
 Smallest distance between boilers or uptakes and bunkers or woodwork 19" Mean dia. of boilers 11'-4" Length 9'-8"  
 Material of shell plates S. M. steel Thickness 15/16" + 1/32" Range of tensile strength 28-32 5 Are the shell plates welded or flanged No  
 Descrip. of riveting: cir. seams Lap joint 24 rivets long. seams 26 rivets 36 rivets Diameter of rivet holes in long. seams 15/16" + 1/32" Pitch of rivets 5 15/16"  
 Lap of plates or width of butt straps 13 3/4" Per centages of strength of longitudinal joint rivets 95.31 Working pressure of shell by rules 198.8 4 Size of manhole in shell 12" x 16" Size of compensating ring 26" x 30" (15/16" + 1/32") No. and Description of Furnaces in each boiler 2 off, chromi Material S. M. steel Outside diameter 3'-4" Length of plain part top 190.3 4 Thickness of plates crown 3 1/2" + 1/32"  
 Description of longitudinal joint welded No. of strengthening rings ✓ Working pressure of furnace by the rules 190.3 4 Combustion chamber plates: Material S. M. steel Thickness: Sides 5/8" + 1/32" Back 9/16" Top 5/8" + 1/32" Bottom 3/4" Pitch of stays to ditto: Sides 9" x 8" Back 7 3/8" x 7 7/8"  
 Top 9 1/16" x 8 1/4" If stays are fitted with nuts or riveted heads nuts Working pressure by rules Back 188 Material of stays S. M. steel Area at smallest part Back 154 Area supported by each stay Back 58 2 Working pressure by rules Back 207 End plates in steam space: Material S. M. steel Thickness 1"  
 Pitch of stays 8" x 4 1/4" How are stays secured plain, washed in inside Working pressure by rules 193.9 Material of stays S. M. steel Area at smallest part 5 5/16 0"  
 Area supported by each stay 256.5 0" Working pressure by rules 221 1/5 Material of Front plates at bottom S. M. steel Thickness 15/16" + 1/32" Material of Lower back plates S. M. steel Thickness 3/4" + 1/32" Greatest pitch of stays 13 1/4" x 7 3/8" Working pressure of plate by rules 83.4 Diameter of tubes 3 1/2"  
 Pitch of tubes 4 3/4" x 4 3/4" Material of tube plates S. M. steel Thickness: Front 15/16" + 1/32" Back 13/16" Mean pitch of stays 11 1/2" Pitch across wide water spaces 1/4 1/2" Working pressures by rules 196.2 4 Girders to Chamber tops: Material S. M. steel Depth and thickness of girder at centre 7" x 3 1/4" x 2 Length as per rule 26 1/4" Distance apart 9 1/16" Number and pitch of Stays in each 2 off 8 1/4"  
 Working pressure by rules 182.9 Steam dome: description of joint to shell ✓ % of strength of joint ✓  
 Diameter ✓ Thickness of shell plates ✓ Material ✓ Description of longitudinal joint ✓ Diam. of rivet holes ✓  
 Pitch of rivets ✓ Working pressure of shell by rules ✓ Crown plates ✓ Thickness ✓ How stayed ✓

SUPERHEATER. Type ✓ Date of Approval of Plan ✓ Tested by Hydraulic Pressure to ✓  
 Date of Test ✓ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler ✓  
 Diameter of Safety Valve ✓ Pressure to which each is adjusted ✓ Is Easing Gear fitted ✓

AKTIESELSKABET  
 HELSINGØRS JERNSKIBS- OG MASKINBYGGERI

The foregoing is a correct description,

Manufacturer.

Dates of Survey: During progress of work in shops - 3/10, 22/12, 19, 11/6, 29/6, 9/7, 6/9, 29/9, 7/10, 25/10, 1/12, 13/12 Is the approved plan of boiler forwarded herewith yes  
 while building: During erection on board vessel - 21/12, 28/12, 29, 2/1, 7/1, 26/1, 9/2 24 Total No. of visits 23  
29/2, 18/3, 25/3, 4/4, 8/4, 9/4 24

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This donkey boiler has been built under special survey and in accordance with the approved plan and letter 2 dated 13/9 1916.  
The material and workmanship have been examined in the shop from the commencement of work until the final trial under steam and are found good in every respect.

CHARGED ON THE MACHINERY REPORT.  
 Survey Fee ... When applied for, 191  
 Travelling Expenses (if any) £ When received, 191

Committee's Minute

WED. 11 JUN 1924

Assigned

Ac. J. Beck Ch. Hoff  
 Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register  
 Foundation

W1360.0172