

REPORT ON BOILERS.

No. 11348

Received at London Office

7 OCT 1941

Report 20th August 1941 When handed in at Local Office

Port of Copenhagen

Survey held at

Elimore

Date, First Survey

23rd October 1940

Last Survey

20th August 1941

(Number of Visits 22)

Tons } Gross
Net

the Steel Single Screw Motor Vessel "EROS"

a/s Helsingfors Fenstils-
og Maskinbyggeri

Yard No. 266 When built 1941

Elimore

By whom built

Engine No. 374 When made 1941

at

Elimore

By whom made

Boiler No. 982 When made 1941

at

Elimore

By whom made

Rederi A/B Helsingborg

Port belonging to Helsingborg

AL DONKEY BOILER.

By whom made a/s Helsingfors Fenstils-
og Maskinbyggeri

Boiler No. 982

When made 1941

Where fixed In the engine casing
upper deck

ers of Steel Works Helsingfors
Copenhagen.

ing Surface of Boiler 291 sq. ft. 27 sq. ft. 147 sq. ft. 13.63 sq. ft. exhaust fired
144 sq. ft. 13.37 sq. ft. oil Is forced draught fitted

Coal or Oil fired oil-exhaust

Description of Boilers one off combined oil-exhaust fired (Cochran type) Working pressure 100 lb/sq. in.

Hydraulic pressure to 200 lb/sq. in. Date of test 28.3.1941

No. of Certificate 670

Integrate in each Boiler No. and Description of safety valves to each boiler 2 off direct spring loaded & 44 lb. diam.

Each set of valves per boiler per rule 1.91 sq. in. 2.92 sq. in. Pressure to which they are adjusted 100 lb/sq. in. Are they fitted with easing gear yes

Whether steam from main boilers can enter the donkey boiler no main boiler Smallest distance between boiler or uptake and bunkers

Is oil fuel carried in the double bottom under boiler Is the base of the boiler insulated yes Largest internal dia. of boiler 4'-6" Height 12' 6"

Material S. M. Steel Tensile strength 28.5-29.3 lb/sq. in. Thickness 7/16" 1/2"

Shell plates welded or flanged no Description of riveting: circ. seams lap joint end single riveting inter. do long. seams double riveting

Net holes in circ. seams 23/32" Pitch of rivets 1 13/16" Percentage of strength of circ. seams plate 42.3 rivets 60.3 of Longitudinal joint shell 70 (TUBES) 69.3 (plate) 63.5 56.9 (combined)

Pressure of shell by rules 137.3 lb/sq. in. Thickness of butt straps outer inner

own: Whether complete hemisphere, dished partial spherical, or flat dished partial spherical Material S. M. Steel

Strength 29.3 lb/sq. in. Thickness 3/4" Radius 4'-6" Working pressure by rules 137.2 lb/sq. in.

tion of Furnace: Plain, spherical, or dished crown spherical Material S. M. Steel Tensile strength 27.4 lb/sq. in.

ss 1/2" External diameter top bottom Length as per rule Working pressure by rules 183.3 lb/sq. in.

f support stays circumferentially and vertically Are stays fitted with nuts or riveted over

er of stays over thread Radius of spherical or dished furnace crown 22 1/2" Working pressure by rule 183.3 lb/sq. in.

ess of Ogee Ring 5/8" Diameter as per rule D 54" d 45" Working pressure by rule 104 lb/sq. in.

tion Chamber: Material Tensile strength Thickness of top plate

if dished Working pressure by rule Thickness of back plate Diameter if circular

as per rule Pitch of stays Are stays fitted with nuts or riveted over

ter of stays over thread Working pressure of back plate by rules

Plates: Material front back S. M. Steel Tensile strength 27.2 lb/sq. in. Thickness 1 1/16" Mean pitch of stay tubes in nests 7 7/8" 9 3/8"

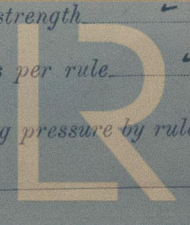
prising shell, Dia. as per rule D 47.5" 48.5" Pitch in outer vertical rows UPPER: 25 1/8" 54" LOWER: 38" 82" Dia. of tube holes FRONT 1 1/2" 2" BACK 1 1/2" 2"

h alternate tube in outer vertical rows a stay tube yes Smaller 1/16" allowed Working pressure by rules front 125.7 lb/sq. in. back 152.1 lb/sq. in.

ers to combustion chamber tops: Material Tensile strength

h and thickness of girder at centre Length as per rule

nce apart No. and pitch of stays in each Working pressure by rule



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Lloyd's Register
Foundation

W278-0123

Crown stays: Material ☒ Tensile strength ☒ Diameter ☒ at body of stay or over threads ☒
 No. of threads per inch ☒ Area supported by each stay ☒ Working pressure by rules ☒
Screw stays: Material ☒ Tensile strength ☒ Diameter ☒ at turned off part or over threads ☒ No. of threads per inch ☒
 Area supported by each stay ☒ Working pressure by rules ☒ Are the stays drilled at the outer ends ☒
Tubes: Material S. M. Steel External diameter ☒ plain 1 1/2" EXHAUST OIL FIRED EXH SWG 10
 No. of threads per inch 9 Pitch of tubes 2 5/8" 3 1/8" Thickness 11/32"
 Manhole Compensation: Size of opening in shell plate 16" x 12" Section of compensating ring mm No. of rivets mac
 of rivet holes - Outer row rivet pitch at ends ☒ Depth of flange if manhole flanged 3" on
Uptake: External diameter ☒ Thickness of uptake plate ☒
Cross Tubes: No. ☒ External diameters ☒ Thickness of plates ☒
 Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with yes

The foregoing is a correct description
 ARTIESELSKABET
 HELSINGBORG JERNSKIBS- OG MASKINBYGGERE
 Bald Jorgensen

Dates of Survey while building { During progress of work in shops - 23/10/11-3/12/12-30/12/14-14/1-24/3-21/2-17-28/13-4/ Is the approved plan of boiler forwarded herewith (If not state date of approval.) yes
 { During erection on board vessel - 2/11/10-12/1-14/1-23/1-9/7-25/7-29/7-13/1-14/8-20/8/ Total No. of visits 22

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.) The above described boiler has been constructed and fitted under Special Survey in accordance with the Rules, the approved plans and to our satisfaction. The material used in construction has been tested as required by the Rules and the workmanship is good.

Survey Fee £ 100.00 When applied for, 19
 Travelling Expenses (if any) £ : When received, 19

FRI 31 OCT 1941

Committee's Minute See Epn J.E. 11348
 Assigned See Epn J.E. 11348

