

# REPORT ON BOILERS.

No. 19535.

Received at London Office.

Submitting Report 13th Jan. 1953. When handed in at Local Office 20th Jan. 1953. Port of Gothenburg  
 Survey held at Uddevalla Date, First Survey 6th October, 1952 Last Survey 1st January, 1953.  
 Name of vessel Motor Tanker "A S L A U G T O R M" (Number of Visits 7) Gross Tons 10270 Net Tons 5946  
 Built at Uddevalla By whom built Uddevallavarvet A.-B. Yard No. 126 When built 1952.  
 Made at Augsburg By whom made Mashinenfabrik Augsburg-Nürnberg Engine No. 501539 When made 1952.  
 Made at Hamburg - Altona By whom made Ottensener Eisenwerk Boiler No. 5327/28 When made 1952.  
 Horse Power --- Owners D/S Torm A/S Port belonging to Copenhagen

## MULTITUBULAR BOILERS ~~MAIN AND AUXILIARY ON~~ DONKEY.

Material of Steel --- (Letter for Record S)  
 Heating Surface of Boilers --- Is forced draught fitted No ✓ Coal or Oil fired Oil ✓  
 Description of Boilers 2 single ended multitubular ✓ Working Pressure 12 kg/cm<sup>2</sup>.  
 Hydraulic pressure to --- Date of test --- No. of Certificate 30 and 31 Can each boiler be worked separately Yes  
 Firegrate in each Boiler --- No. and Description of safety valves to each boiler 1 double springloaded ✓  
 Each set of valves per boiler { per Rule --- as fitted --- Pressure to which they are adjusted 171 lbs/in<sup>2</sup> ✓ Are they fitted with easing gear Yes ✓  
 If donkey boilers, state whether steam from main boilers can enter the donkey boiler No main boilers fitted  
 Distance between boilers or uptakes and bunkers or woodwork 2,5 M. from boiler fuel oil tanks/  
 Donkey Boilers placed in a separate room on a platform Is oil fuel carried in the double bottom under boilers. ---  
 Distance between shell of boiler and tank top plating aft in the engine room. Is the bottom of the boiler insulated Yes  
 Internal dia. of boilers. Length. Shell plates: Material. Tensile strength.  
 Are the shell plates welded or flanged. Description of riveting: circ. seams { end. inter. }  
 Diameter of rivet holes in { circ. seams. long. seams. } Pitch of rivets {  
 Percentage of strength of circ. end seams { plate. rivets. } Percentage of strength of circ. intermediate seam { plate. rivets. }  
 Percentage of strength of longitudinal joint { plate. rivets. combined. } Working pressure of shell by Rules.  
 No. and Description of Furnaces in each Boiler.  
 Tensile strength. Smallest outside diameter.  
 Thickness of plates { crown. bottom. } Description of longitudinal joint.  
 Working pressure of furnace by Rules.  
 Stays in steam space: Material. Tensile strength. Thickness. Pitch of stays.  
 Stays secured. Working pressure by Rules.  
 Stays: Material { front. back. } Tensile strength { Thickness {  
 Pitch across wide water spaces. Working pressure { front. back. }  
 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.  
 Thickness: Sides. Back. Top. Bottom.  
 Stays to ditto: Sides. Back. Top. Are stays fitted with nuts or riveted over.  
 Working 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.  
 Main stays: Material. Tensile strength.  
 No. of threads per inch. Area supported by each stay.  
 Screw stays: Material. Tensile strength.  
 No. of threads per inch. Area supported by each stay.

30-1-53



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..... External diameter { Plain..... Thickness { No. of threads per inch.....  
Pitch of tubes..... Working pressure by Rules..... Manhole compensation: Size of shell plate.....  
Section of compensating ring..... No. of rivets and diameter of rivet holes.....  
Outer row rivet pitch at ends..... 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..... Rivets.....  
Internal diameter..... Working pressure by Rules..... Thickness of crown..... No. and stays.....  
Inner radius of crown..... Working pressure by Rules.....  
How connected to shell..... Size of doubling plate under dome..... Diameter of rivet hole of rivets in outer row in dome connection to shell.....  
Type of Superheater..... Manufacturers of { Tubes..... Steel forgings..... Steel castings.....  
Number of elements..... Material of tubes..... Internal diameter and thickness of tubes.....  
Material of headers..... Tensile strength..... Thickness..... Can the superheater be 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.....  
tubes..... forgings and castings..... and after assembly in place..... Are drums 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

UDDEVALLAVARVET

The foregoing is a correct description  
by *Anders Sjögren*

Dates of Survey while building { During progress of work in shops - - - - -  
During erection on board vessel - - - - - 6.10.1952 - 1.1.1953. Are the approved plans of boiler and superheater forwarded herewith.....  
(If not state date of approval.) Total No. of visits..... 7.

Is this Boiler a duplicate of a previous case..... Yes..... If so, state Vessel's name and Report No. M.t. "ASTRID ELISABETH", Goth.F.ams

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These Donkey Boilers have been securely fitted to the vessel under my inspection and to my satisfaction and the safety valves have been adjusted under steam to 12.0

The boilers marked:  
Nos. 30 and 31  
LLOYD'S TEST 21.5 Kgs.  
WP 12.0 Kgs.  
RFK 7.7.&10.7.52.  
Nos. 5327 and 5328.

An exhaust gas economiser, built by Messrs. Uddevallavarvet Aktiebolag, Uddevalla, has been placed on board the vessel and safety valves adjusted under steam to 12 Kgs/cm<sup>2</sup>.

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

*Anders Sjögren*  
Engineer Surveyor to Lloyd's Register of Shipping

TUES. 24 FEB 1953

Committee's Minute.....  
Assigned *Sir F.E. ushy. spf.*