

## REPORT ON BOILERS.

No. 23115.

Received at London Office 25 MAR 1957

Date of writing Report 13/3 1957. When handed in at Local Office 19/3 1957. Port of GOTHENBURG.

No. in Reg. Book. Survey held at UDDEVALLA. Date, First Survey 4.1.57. Last Survey 28.2. 1957.

(Number of Visits 9.) Tons {Gross 12,029  
Net 6,884

8/92555 on the Single Screw Motor Tanker "S T A N V A L E"

Built at Uddevalla By whom built A.-B. Uddevallavarvet Yard No. 160 When built 1957-2

Engines made at Uddevalla By whom made A.-B. Uddevallavarvet Engine No. 564 When made 1957

Boilers made at Middlesbrough By whom made Stockton Chemical Engineers & Riley Boilers Ltd. Boiler No. 7467/68 When made 1956

MN as per Rule 1500 Owners Stanhope Steamship Co. Ltd. Port belonging to London.

## MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Material of Manufacturers of Steel. ---

Total Heating Surface of Boilers  $2 \times 250 \text{ m}^2$  Of Superheaters. None.

Total for Register Book  $500 \text{ m}^2$  Is forced draught fitted. Yes. Coal or Oil fired. Oil fired.

No. and Description of Boilers. Two S.E. multitubular S.B. Working Pressure 150 lbs/sq".

Tested by hydraulic pressure to 275 lbs. Date of test 15-22/10-56. No. of Certificate MDB 7467/68. Can each boiler be worked separately. Yes.

Area of Firegrate in each Boiler Oil Fired. No. and Description of safety valves to each boiler. Double spring loaded.

Area of each set of valves per boiler {per Rule 14242 mm<sup>2</sup>  
as fitted 15708 mm<sup>2</sup> Pressure to which they are adjusted 150 lbs. Are they fitted with easing gear. Yes.

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No main boiler.

Smallest distance between boilers or uptakes and bunkers or woodwork. --- Is oil fuel carried in the double bottom under boilers. ---

Smallest distance between boilers or uptakes and bunkers or woodwork. Boilers on a platform. Is the bottom of the boiler insulated. Yes.

Largest internal dia. of boilers. Length. Shell plates: Material. Tensile strength.

If fusion welded, state name of welding Firm. Have all the requirements of the Rules for Class I vessels been complied with. Thickness. Are the shell plates welded or flanged. Description of riveting: circ. seams {end  
inter

long. seams. 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.

Thickness of butt straps {outer  
inner. No. and Description of Furnaces in each Boiler.

Material. Tensile strength. Smallest outside diameter.

Length of plain part {top  
bottom. Thickness of plates. Description of longitudinal joint.

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

End plates in steam space: Material. Tensile strength. Thickness. Pitch of stays.

How are stays secured.

Tube plates: Material {front  
back. Tensile strength. Thickness {

Mean pitch of stay tubes in nests. Pitch across wide water spaces.

Girders to combustion chamber tops: Material. Tensile strength. Depth and thickness of girder at centre. Length as per Rule. Distance apart. No. and pitch of stays in each.

Combustion chamber plates: Material.

Tensile strength. Thickness: Sides. Back. Top. Bottom.

Pitch of stays to ditto: Sides. Back. Top. Are stays fitted with nuts or riveted over.

Front plate at bottom: Material. Tensile strength.

Thickness. Lower back plate: Material. Tensile strength. Thickness.

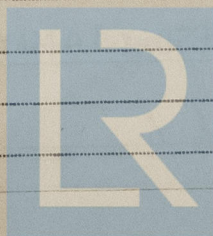
Pitch of stays at wide water space. Are stays fitted with nuts or riveted over.

Main stays: Material. Tensile strength.

Diameter {At base of stay  
or  
Over threads. No. of threads per inch.

Screw stays: Material. Tensile strength.

Diameter {At turned off part  
or  
Over threads. No. of threads per inch.



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Are the stays drilled at the outer ends.....

No. of threads per inch.....

Tubes: Material..... External diameter { Plain..... Stay..... Thickness { ..... No. of threads per inch.....

Pitch of tubes.....

Manhole compensation: Size of opening in 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..... Thickness of crown..... No. and diameter of stays..... Inner radius of crown.....

How connected to shell..... Size of doubling plate under dome..... Diameter of rivet holes and pitch 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 shut off and 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.....

Pressure to which the safety valves are adjusted..... Hydraulic test pressure: tubes..... forgings and castings..... and after assembly in place..... Are drain cocks or 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. 7

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

UDDEVALAGARVET The foregoing is a correct description.

Dates of Survey while building	During progress of work in shops - -	---	Are the approved plans of boiler and superheater forwarded herewith	---
			(if not state date of approval.)	
	During erection on board vessel - -	4.1.57 - 28.2.57.	Total No. of visits	9.

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

**GENERAL REMARKS** *(State quality of workmanship, opinions as to class, &c.).*

These Donkey Boilers have been securely fitted in the ship under my inspection and to my satisfaction.

The boilers have been made under Special Survey as per Middlesbrough Donkey Boiler certificates Nos. 7467/68 attached herewith.

An exhaust gas economiser of Spanner type, manufactured by Wrights Forge and Eng. Co. Ltd., Liston, has also been securely fitted onboard and the safety valves have been adjusted under steam to 150 lbs/sq". Accumulation tests of the Donkey Boilers have been carried out with satisfactory results.

Certificate of the Exhaust Gas Economiser is enclosed herewith.

## Exhaust Gas Economiser

W.F.E. 105  
Spanner Boiler No.J.1718  
No.285 BHM.  
LLOYD'S TEST 275 lbs.  
WP 149 lbs.  
11.10.56. D.P.

Survey Fee . . . . £           

Travelling Expenses (if any) £ : :

When applied for,.....19....

When received.....19.....

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

Committee's Minute

Assigned In Kpt. 1.