

Rpt. 5a.

## REPORT ON BOILERS.

No. 14308

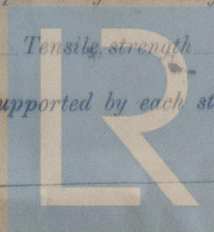
Received at London Office

22 APR 1931

Date of writing Report 27. 2. 31 When handed in at Local Office 27. 2. 31 Port of Grimsby  
 No. in Reg. Book. 1930 Survey held at Lincoln Date, First Survey 2-1-31 Last Survey 20-1-31  
 on the Main Dome for Dredge G. Slope (Number of Visits 5) Gross 635 Tons Net  
 Master Built at Hebburn-a-Type by whom built Hawthorn, Leslie & Co. Ltd. Yard No. 581 When built  
 Engines made at By whom made Engine No. When made  
 14 Boilers made at Lincoln By whom made Ruston & Hornby Ltd. Boiler No. When made  
 Nominal Horse Power Owners Port belonging to

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

Manufacturers of Steel (Letter for Record)  
 Total Heating Surface of Boilers Is forced draught fitted Coal or Oil fired  
 No. and Description of Boilers Working Pressure  
 Tested by hydraulic pressure to Date of test No. of Certificate Can each boiler be worked separately  
 Area of Firegrate in each Boiler No. and Description of safety valves to each boiler  
 Area of each set of valves per boiler {per Rule as fitted Pressure to which they are adjusted Are they fitted with easing gear  
 In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler  
 Smallest distance between boilers or uptakes and bunkers or woodwork Is oil fuel carried in the double bottom under boilers  
 Smallest distance between shell of boiler and tank top plating Is the bottom of the boiler insulated  
 Largest internal dia. of boilers Length Shell plates: Material Tensile strength  
 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 Working pressure of shell by Rules  
 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 {crown bottom Description of longitudinal joint  
 Dimensions of stiffening rings on furnace or e.c. bottom Working pressure of furnace by Rules  
 End plates in steam space: Material Tensile strength Thickness Pitch of stays  
 How are stays secured Working pressure by Rules  
 Tube plates: Material {front back Tensile strength Thickness  
 Mean pitch of stay tubes in nests Pitch across wide water spaces Working pressure {front back  
 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 Working pressure by Rules 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  
 Working pressure by Rules 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  
 Working Pressure Main 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



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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	Thickness	No. of threads per inch
	Plain Stay		
Pitch of tubes	Working pressure by Rules	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	S. M. steel
Tensile strength	Thickness of shell	Description of longitudinal joint	D. K. D. Butt strap
Diameter of rivet holes	Pitch of rivets	Percentage of strength of joint	Plate 74.4 Rivets 118.2
Internal diameter	Working pressure by Rules	Thickness of ends	No. and diameter of
stays	Inner radius of	Working pressure by Rules	
How connected to shell	Size of doubling plate under	Diameter of rivet holes and pitch	
of rivets in outer row in	connection to shell		
Type of Superheater	Manufacturers of		
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	Working pressure as per	
Rules	Pressure to which the safety valves are adjusted	Hydraulic test pressure:	
tubes	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			

Date of writing \_\_\_\_\_

No. in S  
Req. Book

Built at *As*

Engines mad

*D. Boiler made*

Owner's ~~\_\_\_\_\_~~

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Made at L

## Manufacture

**Total Heat**

No. and Des.

Tested by hy

### Area of Fir

Area of each

State whether

### Shell plates

Dia. of rivet

Working 122

### Shell Crow

Tensile stre

### Description

Thickness

Pitch of su

Diameter of

Thickness of

### Combustion

Radius if  $\phi$

Length as r

Diameter of

### Tube Plate