

## REPORT ON BOILERS.

No. 6272

22 MAY 1928

Received at London Office

Date of writing Report Apr. 18th 1928.

When handed in at Local Office

Apr. 18th 1928.

Port of

Hong Kong

No. in Survey held at  
pp. Book.

Hong Kong

Date, First Survey Mar. 22nd. 1928 Last Survey Apr. 17th. 1928.

Single Screw Tug "CHIRM CHOM PHOL"

(Number of Visits 6 Gross 97.24  
Tons Net 27.58)

Built at Hong Kong

By whom built W. G. Bailey &amp; Co. Ltd.

Yard No. 243 When built 1928

Stockton

By whom made

Harker &amp; Sons

Engine No. 266 When made 1927

Stockton

By whom made

Riley Bros.

Boiler No. 5757 When made 1927

41.2

Owners

The Sriracha Co. Ltd.

Port belonging to Bangkok, Siam.

## MULTITUBULAR BOILERS—MAIN, AUXILIARY, EXC. COUNTRY

Manufacturers of Steel David Colville &amp; Sons

(Letter for Record S)

870

Is forced draught fitted No

Coal or Oil fired Coal

One S. E. Marine

Working Pressure 180 lbs.

320 lbs. Date of test 26-9-27

No. of Certificate

6579

Can each boiler be worked separately

Area of Firegrate in each Boiler 34.5 No. and Description of safety valves to each boiler 2 at 2½" spring loaded

Area of each set of valves per boiler (per Rule 5.56) as fitted 9.8 Pressure to which they are adjusted 180 lbs. Are they fitted with easing gear Yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Smallest distance between boilers (uptakes and bunkers) 7" Is oil fuel carried in the double bottom under boilers No

Smallest distance between shell of boiler and tank top plating Open floors Is the bottom of the boiler insulated No

Largest internal dia. of boilers 10'-0" Length 9'-6" Shell plates: Material Steel Tensile strength 26/32

Thickness 27/32" Are the shell plates welded or flanged No Description of riveting: circ. seams end D.R.

T.R.D.B.S.

Diameter of rivet holes in { circ. seams

1.1/16"

15/16"

Pitch of rivets {

3.1/16" x 6.1/8"

6.5/8"

Percentage of strength of circ. end seams { plate rivets 65.3 42.5

Percentage of strength of circ. intermediate seam { plate rivets - -

Percentage of strength of longitudinal joint { plate rivets 85.8 95.1

Working pressure of shell by Rules 182 lbs.

Thickness of butt straps { outer 21/32" inner 25/32" No. and Description of Furnaces in each Boiler 2 Plain

Material Steel Tensile strength 26/30 Smallest outside diameter 3'-3"

Length of plain part { top 5'-10" bottom 6'-4" Thickness of plates { crown bottom 3/4" Description of longitudinal joint Weld

Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 192 lbs.

End plates in steam space: Material Steel Tensile strength 26/30 Thickness 25/32" Pitch of stays 14"x 13"

How are stays secured D. N. &amp; W. Working pressure by Rules 183 lbs.

Tube plates: Material { front back Steel Tensile strength { 26/30 Thickness { 25/32" 23/32"

Lean pitch of stay tubes in nests 10" Pitch across wide water spaces 13" Working pressure { front 180 lbs. back 183 lbs.

Orders to combustion chamber tops: Material Steel Tensile strength 26/32 Depth and thickness of girder

at centre 6½ x 5/8 (double) Length as per Rule 2'-3" Distance apart 7" No. and pitch of stays

in each 2 - 8"x 7" Working pressure by Rules 188 lbs. Combustion chamber plates: Material Steel

Tensile strength 26/30 Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 1"

Pitch of stays to ditto: Sides 9"x 8" Back 9"x 8½" Top 8"x 7" Are stays fitted with nuts or riveted over Nuts

Working pressure by Rules 181 lbs. Front plate at bottom: Material Steel Tensile strength 26/30

Thickness 25/32" Lower back plate: Material Steel Tensile strength 26/30 Thickness 25/32"

Pitch of stays at wide water space 13"x 9" Are stays fitted with nuts or riveted over Nuts

Working Pressure 206 lbs. Main stays: Material Steel Tensile strength 26/32

Diameter { At body of stay or Over threads 2½" No. of threads per inch 6 Area supported by each stay 178 2020

Working pressure by Rules 182 lbs. Screw stays: Material Steel Tensile strength 26/30

Diameter { At turned off part or Over threads 1½" No. of threads per inch 9 Area supported by each stay 70 114

Tug Chimm Ohm Pho  
6272

Working pressure by Rules 180 lbs.	Are the stays drilled at the outer ends? <input checked="" type="checkbox"/>	Margin stays: Diameter At turned off part, or External diameter <input checked="" type="checkbox"/> Over threads 12"	
No. of threads per inch 9	Area supported by each stay 93.2	Working pressure by Rules 194 lbs.	
Tubes: Material Iron	External diameter Plain 3" to 3.1/16" Stay 3" to 3.1/4"	Thickness 9 w.g. 5/16"	No. of threads per inch 9
Pitch of tubes 4" x 4"	Working pressure by Rules 14100. 277	Manhole compensation: Size of opening 40 - 3.1/16"	
shell plate 20" x 16"	Section of compensating ring 8" x 1"	No. of rivets and diameter of rivet holes 40 - 3.1/16"	
Outer row rivet pitch at ends 7 1/2"	Depth of flange if manhole flanged 3"	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 Bolts
Internal diameter	Working pressure by Rules	Thickness of crown	No. and diameter
stays	Inner radius of crown	Working pressure by Rules	
How connected to shell	Size of doubling plate under dome	Diameter of rivet holes and pi	
of rivets in outer row in dome connection to shell			
Type of Superheater	Manufacturers of Tubes 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
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		
Rules	Pressure to which the safety valves are adjusted	180	Working pressure as
tubes	and after assembly in place	180	Hydraulic test pressu
to free the superheater from water where necessary		180	
Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with <input checked="" type="checkbox"/> Yes			

The foregoing is a correct description,  
For W. S. BAILEY & Co., Ltd.

*W. S. Bailey*

Manufact

Dates of Survey  During progress of work in shops 1927 Aug. 5, 11, 26, Sept. 6, 8, 15, 26. Stockton. Managing Director Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)  
 During erection on board vessel 1928 Mar. 22, 28, Apr. 3, 11, 13, & 17. Total No. of visits Stockton 7. Hong Kong 6.

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

The materials have been tested by the Surveyors to this Society and this boiler has been built under special survey at Stockton in accordance with the Rules and approved plan (See Middlesbrough Report No. 13054).

The boiler has now been installed on board this vessel in accordance with the Rules and the workmanship is good.

180 x 41	180 x 41	180 x 41	180 x 41
180 x 41	180 x 41	180 x 41	180 x 41
180 x 41	180 x 41	180 x 41	180 x 41
180 x 41	180 x 41	180 x 41	180 x 41
180 x 41	180 x 41	180 x 41	180 x 41

Indentification mark on boiler:-

No. 6579
LLOYD'S TEST
320 lbs.
W.P. 180 lbs.
26-9-27
P.T.B.

Survey Fee £ 100.00 See Machinery When applied for 100  
Travelling Expenses (if any) £ 100.00 Report When received 100

*J. S. Morrison*  
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute FRI. 25 MAY 1928

Assigned See Report attached

TUE. 12 MAR 1929  
TUE. 15 OCT 1929  
FRI. 15 NOV 1929

© 2020

Lloyd's Register Foundation