

Copy

Det norske Veritas

First Entry Report

Donkey-Boiler for Steamer

*"Brighton"
Kristiania.*

(English measure and weight).

Inches.

What kind? *Cochran Patent Boiler.*

| | | |
|--|---------|-------|
| Diameter inside (for calculation) | 4 feet | 9 |
| Height, length , total | 10 feet | 3 |
| Furnace ext. Diam. Top | - feet | |
| do. - - Bottom | 4 feet | 0 |
| do. Height, length, effective | - feet | - |
| do. Radius of top or flat | 2 feet | - |
| Radius of top of Outershell or flat | 4 feet | 9 |
| Number of Cross tubes, ordinary tubes <i>74.</i> | | |
| Outside diam. of same | | 2 1/2 |
| Diameter of internal funnel | | |
| Is the funnel going through both tops or is it going out at side of shell? | | |

Thickness of Material.

| | | |
|---|------|-----|
| Cylindrical shell | 7/16 | 3/8 |
| Outside-top | 9/16 | |
| Furnace-shell | 1/2 | |
| do. top | 1/2 | |
| Combustion Chamber | | |
| Back tube plate | 5/8 | |
| Front tube plate | 3/4 | |
| Cross tubes or Ordinary tubes <i>V. H. L. & Co.</i> | | |
| Internal funnel <i>May</i> | | 1/4 |



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Lloyd's Register
Foundation

Inches

Stays. What kind? *None*

Number in steam space

do. back of combustion chamber

Effective diam. & pitch.

Number in top of combustion chamber

Effective diam. & pitch.

Outside Shell, Longitudinal Seam, what kind? *Double riv. lap*

do. do. Diameter of rivet holes *23/32*

do. do. Pitch of rivet holes *2.395 - 2.385 & 2.325*

do. do. Are holes drilled in place or punched? *Drilled*

do. do. Breadth of overlap or buttstrap — — *3 5/8*

What material in Boiler:

Plates } *Steel.*

Rivets } *Steel.*

Stays } *Steel.*

Net Percentage of Longitudinal Seams in plates *90 %*

do. do. do. in rivets *96.7 %*

Working Pressure, calculated acc. Rule, in shell *100.7* lbs. pr. In.

do. do. do. do. in furnace *125* do.

Grate Surface *11 3/4* Feet

Safety Valves, what kind? *Direct spring loaded.*

do. do. number of *1*

do. do. area of each *4.91* In.

Safety valves are loaded to *100* lbs. pr. In.

Are they supplied with easing gear? *Yes*

Can steam from Main Boilers get into Donkey Boiler? *No*

The Mountings are *Two & in order.*

Inches

Where is the Boiler placed? *a recess in the stokehold.*

The Boiler is built by *Cochran & Co., Annan Ed.*
in *Scotland* year *1911*
under the supervision of Veritas.

The Boiler is tested with water to lbs. pr. In.
the *191*

Annan the *30th* Nov. 1911

For Cochran & Co., Annan, Limited
(sign) Charles Cumpson
Builders. Director

The least distance from the boiler, the smokebox, or the funnel to
bunkers or woodwork ~~12~~ Inches.

The Workmanship is

Identification mark on Boiler:

| |
|----------------------|
| N. V. |
| No. <i>487</i> |
| Test <i>200 lbs.</i> |
| <i>30 - 11 - 11</i> |
| <i>O. H. H.</i> |

Annan the *30th* Nov. 1911

(sign) O. H. Hagnaffs
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