

*— I S "Bayelgette" —*

# Lloyd's Register of British and Foreign Shipping.

(Received in the London Office.....)

P.

No. *36*      **REPORT ON ENGINE FORGINGS.**

Sir,      *Steel Ingots*  
 I beg leave to report that the ~~Forgings~~, as herein described, manufactured by ~~The Barnard Hematite Steel Co and~~ *the West-Cumberland Steel Co -* and forged by ~~the~~ *of Barnard Ship Bldg Co* for the Engines No. *52* being constructed by *The Barnard Ship Building Co* of *Barnard* for the Ship No. *52*, being built by *same firm* of *—* have been inspected by me in course of being forged and turned, and found to be, so far as can be seen, *Satisfactory, as set forth below:—*

Purpose.	Diameter	Area <small>in Square Inches</small>	Ultimate Stress.		Elongation in 8"	Bending Tests.
			Total. <small>Tons.</small>	In Sq Inches <small>Tons.</small>		
Crank Shafts.	<i>1 1/8"</i>	<i>994</i>	<i>26.16</i>	<i>26.32</i>	<i>28.1</i>	<i>Pieces were cut from each shaft &amp; bowed 1/8" square bent close without any signs of fracture.</i>
Propeller Shafts.	<i>1"</i>	<i>7854</i>	<i>21.07</i>	<i>26.80</i>	<i>25.0</i>	
Thrust Shafts.	<i>1"</i>	<i>7854</i>	<i>21.42</i>	<i>27.20</i>	<i>25.0</i>	

Mark on Forging.

Lloyd's

No. *36*

*M. H - 87.*

I am, Sir,

Your Obedient Servant,

*J. Ritchie*      *C Buchanan*  
*Barnard.*

The Secretary,  
 London.

	<i>W. Cumberland Steel Co.</i> CRANK SHAFT.	<i>Barnard Hematite Steel Co Ltd</i> STRAIGHT SHAFTING.		
		THRUST SHAFT.	INTERMEDIATE SHAFTS.	PROPELLER SHAFT.
Material* - -	<i>Siemens Martin Steel.</i>	<i>do</i>	<i>none fitted</i>	<i>Siemens Martin Steel.</i>
How made - -	<i>Forged from Ingots</i>	<i>"</i>	<i>"</i>	<i>Forged from Ingots</i>
Dimensions - -	<i>7" dia</i>	<i>6 7/8 dia</i>	<i>"</i>	<i>7" dia</i>
Progress on In- spection - -	<i>Forged &amp; Turning</i>	<i>Forged &amp; Turning.</i>	<i>"</i>	<i>Forged &amp; Turning.</i>
Dates when In- spected - -	<i>17<sup>th</sup> 18<sup>th</sup> &amp; 26<sup>th</sup> / 8/86. 3<sup>rd</sup> 7/86.</i>	<i>4<sup>th</sup> 15<sup>th</sup> 17<sup>th</sup> &amp; 22<sup>nd</sup> / 3/87.</i>	<i>"</i>	<i>4<sup>th</sup> 15<sup>th</sup> &amp; 22<sup>nd</sup> / 3/87.</i>

\* If of iron, state whether scrap or puddled iron. If of steel, state whether made on the Bessemer or the Siemens Martin process.