

*A. S. Graffoe*Received at WEST HARTLEPOOL Office, 20<sup>th</sup> June 1892

## Lloyd's Register of British and Foreign Shipping.

(Report on Machinery, No. 8895 Port WEST HARTLEPOOL.)No. 50 ENGINE FORGINGS OR CASTINGS.

I have to report that the ~~Iron or Steel Forgings or Castings~~, as herein described, manufactured by Gustafsfabrik Fried. Krupp of Essen Va Ruhr. for the Engines No. 138 being constructed by Messrs. W. Gray & Co. Lim. of West Hartlepool for the Ship No. #175 being built by Messrs. William Gray & Co. Limited of W. Hartlepool. have been inspected by me as set forth below, and found to be, so far as can be seen, free from surface marks or defects.

6 Collared parts and 3 pins for a 3 throw crank shaft.

Mark on Forgings.

Lloyd's

No. 69

J.M.

Düsseldorf 21 December 91.Johannes Meijer

	CRANK SHAFT.	STRAIGHT SHAFTING.		
		THRUST SHAFT.	INTERMEDIATE SHAFTS.	PROPELLER SHAFT.
Material* - -	<u>Martin Steel</u>			
How made - -	<u>Forged</u>			
Dimensions - -	<u>11" diam.</u>			
Progress on Inspection - -	<u>rough turned</u>			
Dates when Inspected - -	<u>14 &amp; 10 Dec.</u>			
	<u>1891.</u>			

## PARTICULARS OF TESTS APPLIED TO CASTINGS:—

A. tensile test gave the following result:  
area of Sample .4052 Breaking Strain 13.10 Tons.  
Strength p. Inch<sup>2</sup> 27.1 Elongation 24 %.

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



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