

369.

A. Lloyd's Register of British & Foreign Shipping.

(Report on Machinery, No. Port)

Order 63686.

No. 18814

ENGINE FORGINGS OR CASTINGS.

I have to report that the ~~Iron~~ Steel Forgings ~~or Castings~~, as herein described, manufactured by Messrs. Haniel & Lueg, of Düsseldorf-Grafenberg for the Engines No. 336. being constructed by Messrs. Workman Clark & Co., of Belfast. for the Ship No. , being built by of

have been inspected by me as set forth below, and found to be, so far as can be seen, sound and free from defects

4 connecting rods, 4 crossheads.

Mark on Forgings or Castings.

Lloyd's
No. 302/303/04/05/01.
A.L.3.14.

Düsseldorf, 17th April 1914.

Alex. Lawrence.

	CRANK SHAFT	crossheads	STRAIGHT SHAFTING.	
	connecting rod	PISTON SHAFT.	INTERMEDIATE SHAFTS.	PROPELLER SHAFT.
Material* ...	annealed - Siemens Martin - Ingot steel			
How made ...	forged	forged		
Dimensions ...	7 3/4" / 9"	7 1/2" diam.		
Progress on Inspection	rough turned	rough turned		
Tests on Standard Test Pieces.	diameter .977" No.302.-No.303.	diameter .977" No.301.		
Tensile Test— Tons per square inch	28.9	30.2		
Extension per cent	37.1	34.8		
Cold Bending Test— Angle before fracture	180 degr. good.	180 degr. good.		
Dates when Inspected	9/3.30/3.1914.	9/30/3.1914.		

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:—

No. 304¹ connecting rod (29.5 tons p.sq.inch 34.8% Elongation in 3 1/2"
-305.¹ do. do.

Fee (if any chargeable) £

To be paid at Düsseldorf.

* If of iron, state whether scrap or puddled iron. If of steel, state whether made on the Open Hearth process.



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For the information of Subscribers and the Committee on

1990年10月10日

ENGINE FORGING OPERATIONS

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Lloyd's Register
Foundation

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307. 4142. 243 101

about the same as the other two, and the same as the other two.

connecting logs, a crosshead,

Belfast
 Workman Clark, Ray
 SS-336

Connecting Rods &
6 rose heads

S. J. Carman the engineer

71010340

W1102-0275

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about half way as from village state, 1906 to 71, 1907 building to other various road, 1908 to 11