

Lloyd's Register of British & Foreign Shipping.

(Report on Machinery, No.

Port

123.

Order 60685/60289

No. 16461

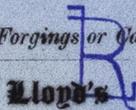
ENGINE FORGINGS OR CASTINGS

The words FORGINGS or CASTINGS, IRON or STEEL, should be struck out as may be required.

I have to report that the ~~Iron or Steel~~ **Steel Forgings or castings**, as herein described, manufactured by **Messrs. Haniel & Lueg** of **Düsseldorf-Grafenberg** for the Engines No **772** being constructed by **Messrs. John Dickinson & Sons** of **Sunderland** for the Ship No. **501**, 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.**

2 Intermediate shafts

Mark on Forgings or Castings.



No. 4608, 4609

H.K.3.13.

Düsseldorf 17th. March 1913.

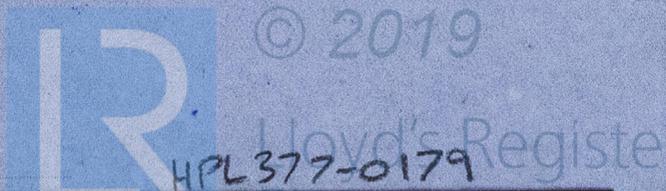
Hans Kolbow

	CRANK SHAFT.	STRAIGHT SHAFTING.		
		THRUST SHAFT.	INTERMEDIATE SHAFTS.	PROPELLER SHAFT.
Material*			annealed Siemens Martin Ingotsteel	
How made			forged	
Dimensions			13 1/2" diam.	
Progress on Inspection			rough turned	
Tests on Standard Test Pieces.			diameter .798" No. 4608 4609	
Tensile Test—			30.1 30.4	
Tons per square inch			29.2 29.4	
Extension per cent			180 degr. good.	
Cold Bending Test—				
Angle before fracture				
Dates when Inspected			10. 12. 14/3. 1913.	

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:—

Fee (if any chargeable) £

To be paid at **Düsseldorf**



HPL 377-0179

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