

# Lloyd's Register of British & Foreign Shipping.

(Report on Machinery, No.

Port

Order 59877

No. 15635. ENGINE FORGINGS OR CASTINGS.

I have to report that the ~~Dunker~~ Steel Forgings ~~and Castings~~, as herein described, manufactured by Messrs. Haniel & Lueg of Düsseldorf-Grafenberg for the Engines No. 2097 being constructed by North Eastern Marine Eng. Co of Sunderland 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, ~~spund~~ and free from defects.

2 Intermediate shafts

Mark on Forgings or Castings.

Lloyd's

No. 142,143

J.D. 11.12.

Düsseldorf 13th. November 1912.

James C. Dukes.

	CRANK SHAFT.	STRAIGHT SHAFTING.		
		THRUST SHAFT.	INTERMEDIATE SHAFTS.	PROPELLER SHAFT.
Material* ...			annealed Siemens Martin Ingot steel	
How made ...			forged	
Dimensions ...			12 3/8" diam.	
Progress on { Inspection }			rough turned	
Tests on Standard Test Pieces.			diameter .798" No. 143, No. 142.	
Tensile Test— Tons per square inch			29.3 29.9	
Extension per cent			33.2 32.6	
Cold Bending Test— Angle before fracture			180 degr. good.	
Dates when Inspected			8. & 16/10.1912. 11. 11. 1912.	

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:—

Fee (if any chargeable) £

To be paid at Düsseldorf



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Foundation

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