

Lloyd's Register of Shipping.

(Report on Machinery, No.

Port *Middlesbrough*)No. *18458* ENGINE FORGINGS ~~OR CASTINGS~~.

I have to report that the ~~Iron or Steel Forgings or Castings~~, as herein described, manufactured by *Messrs J Spencer & Son* of *Newburn* for the Engines No. *1956* being constructed by *Messrs Blain & Co* of *Hockton-on-Tees* 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*.

Mark on Forgings ~~or Castings~~.

Lloyd's

No. *6888 N**Ed. + M. M**J Dale*
Newcastle.

	CRANK SHAFT.	STRAIGHT SHAFTING.		
		THRUST SHAFT.	6 INTERMEDIATE SHAFTS.	PROPELLER SHAFT.
Material* ...	<i>Swedish Martin forged steel</i>			
How made ...	<i>Forged</i>			
Dimensions ...	<i>14 1/4 dia</i>	<i>14 3/4 dia</i>	<i>13 3/4 dia</i>	
Progress on Inspection }	<i>Forging testing & rough machining.</i>			
Tests on Standard Test Pieces.				
Tensile Test—	<i>31.9, 31.8, 32.3.</i>	<i>29.6, 31.0, 30.8, 30.2, 31.5, 30.6, 31.2.</i>		
Tons per square inch ...		<i>31 1/2, 33, 34, 34, 31, 29, 30.</i>		
Extension per cent ...	<i>27, 32, 30,</i>	<i>180</i>	<i>180</i>	
Cold Bending Test—	<i>180</i>	<i>180</i>	<i>180</i>	
Angle before fracture ...				
Dates when Inspected	<i>from</i>	<i>17.4.24 to</i>	<i>29.5.24</i>	

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:—

Shafts examined whilst being machined and when finished and found, so far as could be seen, sound & good shafts re-stamped as above

W. Morrison

Fee (if any chargeable) £

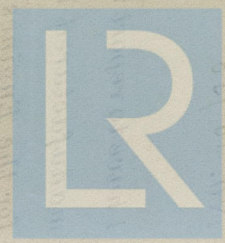
To be paid at

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

The following are the particulars of the
 engine and its parts as shown in the
 following drawings:

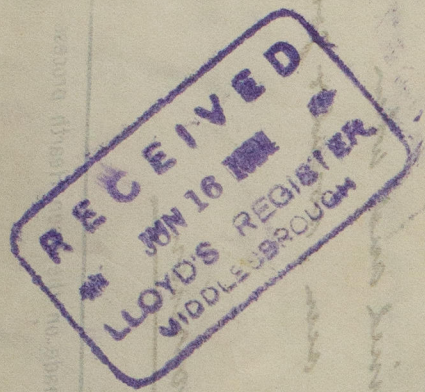
ENGINE FORGING

The engine is of the vertical type and is
 fitted with a single cylinder and a
 single piston rod. The cylinder is of
 the cast iron type and is fitted with
 a single piston rod. The piston rod is of
 the steel type and is fitted with a
 single piston pin. The piston pin is of
 the steel type and is fitted with a
 single piston pin. The piston pin is of
 the steel type and is fitted with a
 single piston pin.



THE FOLLOWING ARE THE PARTICULARS OF THE
 ENGINE AND ITS PARTS AS SHOWN IN THE
 FOLLOWING DRAWINGS:

ITEM	DESCRIPTION	QUANTITY	UNIT
1	CRANK SHAFT	1	PC
2	THRUST SHAFT	1	PC
3	PROMELLER ROOM	1	PC
4	5.9.24	1	PC
5	6.15.8.24	1	PC



The following are the particulars of the
 engine and its parts as shown in the
 following drawings: