



Lloyd's Register of British & Foreign Shipping.

(Report on Machinery, No.

Port Sunderland)

No. 14019 ENGINE FORGINGS ~~OR CASTINGS~~

I have to report that the ~~Iron or Steel Forgings or Castings~~, as herein described, manufactured by John Spencer & Sons Ltd. of Newburn for the Engines No. 2153 being constructed by N. E. M. Co., Ltd. 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, Sound

The words FORGINGS or CASTINGS, IRON or STEEL, should be struck out if not applicable.

Mark on Forgings or Castings.

Lloyd's
No. 768-N
N.C.

W. Campbell
Newcastle

10-9-14

| | CRANK SHAFT. | | STRAIGHT SHAFTING. | | |
|---|-------------------------------|-------------------|-------------------------|----------------------|-------------------|
| | | | THRUST SHAFT. | INTERMEDIATE SHAFTS. | PROPELLER SHAFT. |
| Material | Ingot Steel | Ingot Steel | Ingot Steel | Ingot Steel | Ingot Steel |
| How made | Forged & Machined | Forged & Machined | Forged & Machined | Forged & Machined | Forged & Machined |
| Dimensions | 10 | 10 | 10 | 10 ^{3/8} | 10 ^{3/8} |
| Progress on Inspection | Rough turned | Rough turned | Rough turned | Rough turned | Rough turned |
| Tests on Standard Test Pieces. | | | | | |
| Tensile Test— Tons per square inch | 31'4. 30'8. 31'6. | 31'8. | 30'8. 31'2. 31'6. 30'8. | 32'0. | 32'0. |
| Extension per cent | 30%. 31%. 29%. | 31%. | 31%. 27%. 29%. 29% | 27%. | 27%. |
| Cold Bending Test— Angle before fracture | 180°. 180°. 180°. | 180°. | 180°. 180°. 180°. 180°. | 180°. | 180°. |
| Dates when Inspected | August 18 to September 9-1914 | | | | |

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:—

Fee (if any chargeable) £ _____
To be paid at _____



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