

COPY.

C. 2327

MANCHESTER.

18th September, 1929.

J. McL. REID,



Messrs. Fiat British Auxiliaries, Ltd. Glasgow, attend at the Works of Messrs. Mitchell, Shackleton & Co. Ltd., Manchester on the 12th August, 1929, and subsequently, for the purpose of inspecting and testing one three throw Crankshaft, made to the Order No. 1872 of the former firm.

Samples cut from the forgings were mechanically tested in the presence of the undersigned, with the following results:-

Forging No.	Test Piece from	Yield. Tons per sq. in.	Ult. Tensile Stress. Tons per sq. in.	Elong. %	Bend Test Angle without fracture.
1663.	End longitudinal.	33.4	35.4	28	180°
	Across web.	18.6	33.0	23	125°
	Along web.	33.0	34.6	27	180°

The shaft was also examined in its finished condition and found, so far as could be seen, sound.

The finished diameter of the pins and journals was 160 m/m. and the shaft was stamped *R* for identification.

PER:- E2 - 2 - 0

J. McL. Reid,

Surveyor to Lloyd's Register of Shipping.

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