

COPY.

Lloyd's Register of Shipping.

GLASGOW REPORT No 50737



Port

MANCHESTER.

C.2390

30th January, 1930.

This is to Certify that


J. F. CAMPBELL and J. McL. REID,

the undersigned Surveyor^s to this Society did at the request of Messrs. Fiat British Auxiliaries Ltd., Glasgow, attend at the Works of Messrs. Mitchell, Shackleton & Co. Ltd., Manchester, on the 8th December, 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 forging were mechanically tested in the presence of one of the undersigned with the following results:-

No.	Test Piece from	Yield.	Ult. Tensile	Elong.	Bend Test.
		Tons per sq. inch.	Stress.	%	Angle with- out fracture
15.	End longitudinal	23.2	36.8	29	180 degrees.
	Across web	23.6	39.6	19	125 "
	Along web	22.8	37.4	21	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 180 m/m., and the shaft was stamped:- "LLOYD'S and ", for identification.

Fee:- £2 - 2 - 0

J. F. Campbell & J. McL. Reid.
Surveyors to Lloyd's Register of Shipping.

This Certificate is issued upon the terms of the Rules and Regulations of the Society, which provide that:-

"While the Committee use their best endeavours to ensure that the functions of the Society are properly executed, it is to be understood that neither the Committee nor the Society are under any circumstances whatever to be held responsible for any inaccuracy in any report or certificate issued by the Society or its Surveyors, or in any entry in the Register Book or other publication of the Society, or for any error of judgment, default, or negligence of the Surveyors, or other Officers or Agents of the Society."

