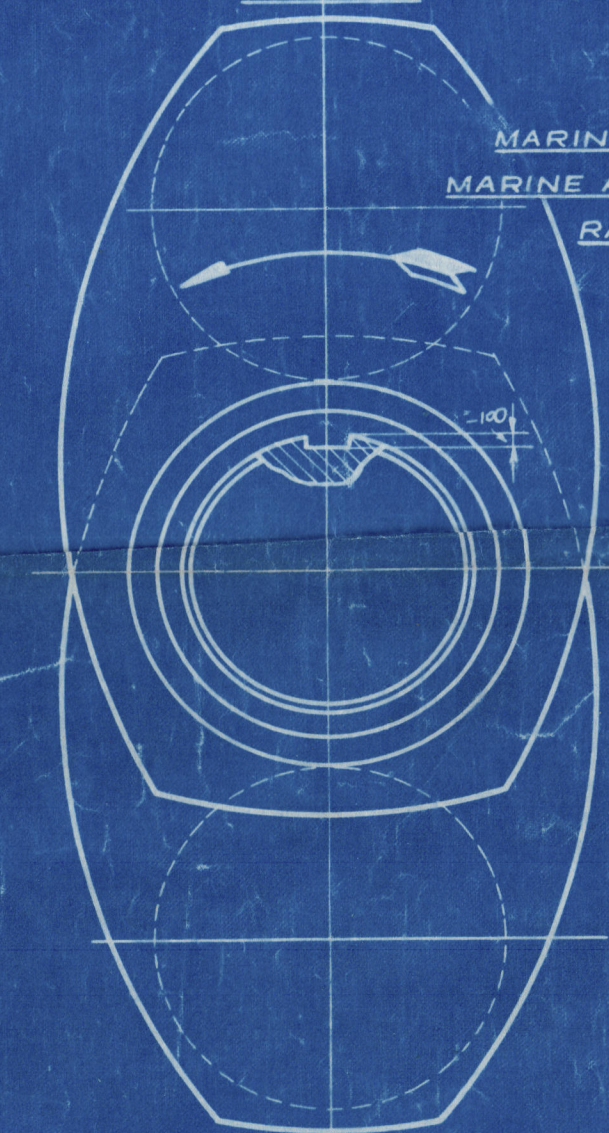


CRANKSHAFT MADE TO ENCLOSED DIMENSIONS  
FOR FIRST THREE ENGINES ONLY (18-10-32)

4L3/29791 0/ R5897	
4L3/29792 0/ R5898	
4L3/29942 0/ R6606	

A diagram of a circular structure, possibly a cross-section of a pipe or a well. It features a large outer circle and a smaller inner circle. The space between the two circles is divided into six equal segments by radial lines. Each segment contains a small circle with a cross inside. The diagram is labeled with '7 1/2' and '9' in the segments, and '9' in the segment below the center. Arrows indicate a clockwise flow direction around the perimeter.



FORM TOOL 8957

Saint-Eman. lett.  
Qls 68153. 19.7.43

~~LONDON COPY~~

ALL CRANKSHAFTS MADE TO THIS  
MATERIAL SPECIFICATION TO  
BE STAMPED "Z" 21.10.36

WAR EMERGENCY  
ALTERNATIVE MATERIAL BS EN5-4400  
BRINELL HARDNESS 142-170

STAMP 5

31 3/8 TONS STEEL

TENSILE TEST

TEST PIECES MACHINED TO BRIDGMAN STANDARD TEST PIECE IN  
ULTIMATE STRESS BETWEEN 95,000 PSI AND 100,000 PSI

YIELD POINT NOT LESS THAN 58% OF ULTIMATE STRESS

ELONGATION NOT LESS THAN 25%

REDUCTION OF AREA NOT LESS THAN 40%

BRINELL HARDNESS 90-100 BETWEEN 142.8 & 76

BEND TEST 150°

NO "LEAKS" IN BEND AND TEST

2552

**MATERIAL**

S.M. ACID STEEL

22 22 TON

TOMBOYS INSPECTION & TEST

**DATE** 6 4 22

**MACHINED**  
**ALL OVER**  
**PRINTS REC?**

**SUPERSEDES**  
**SUPERSEDED BY**  
**DRAWN BY**  
**TRACED BY**  
**CHECKED BY**

**DWG IN**  
SOCIETY  
Royal Society  
Foundation

DWG No  
5901

**L. GARDNER & SONS, LTD.**  
**PATRICROFT**  
**N<sup>o</sup> MANCHESTER.**

<u>TYPE</u>	4L3. ENGINE.
<u>DESCRIPTION</u>	CRANKSHAFT. PORT & STARBOARD. (AS STOCKED)
<u>SCALE</u>	HALF & FULL SIZE.