



For London.

# LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

Hamburg 1, Ballindamm 25

Telegrams: Surveyors, Hamburg

Telephone: No. 33 35 39  
33 88 08

Reference:  
1429/WB/Sa.

25th February, 1956.

Dear Sirs,

S.S. "ALICE MARIE"  
No. 00923 in the Register Book.

We are in receipt of your letter of the 22nd instant from which it is noted that the Owner proposes to replace the existing main propelling steam engine with an oil engine of the type designed for submarines having the following particulars:-

Crankshaft	{ Pins	243.5 mm dia. with
		120 mm dia. central hole,
	{ Journals	243.2 mm dia. with
		120 mm dia. central hole,

### Particulars of Engines

Type	MAN - M6V 40/46	Max. Pressure	60 kg/cm <sup>2</sup>
Cycle	4 SCSA	M.E.P.	8.3 kg/cm <sup>2</sup>
No. of cyls.	6	R.P.M.	375
Bore	400 mm	B.H.P.	1200
Stroke	460 mm		
Span of bearings	427 mm		

The plan No. 451-53 of crankshaft has been examined but it is regretted that the scantlings do not meet the requirements of the Society's Rules for the above output.

Having regard to the minimum yield point of the crankshaft material viz 30 kg/mm<sup>2</sup>, this engine could only be accepted for an output of 800 B.H.P. at 375 R.P.M. with a maximum pressure of approximately 50 kg/cm<sup>2</sup>.

We would add that crankcase explosion relief valves would require to be fitted in accordance with the Rules.



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Final approval of the proposed sizes of shafting is subject to the torsional vibration characteristics of the complete dynamic system being approved as required by the Rules.

The single copy of the plan is being retained in this office for record purposes.

Yours faithfully,  
The Surveyors,  
Per:-

*W. Blacklock*

Messrs.  
Thomsen & Co. GmbH.  
H a m b u r g 1  
Chilehaus A/ 2. Stock

c.c. London



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