

Messrs. Schichau. Yard No. 1424.

IT IS SUBMITTED that with ^{Heavy Oil} engines for main propelling purposes, having the following particulars viz:- Engine Type 2SCSA, No. of Cylinders 9, Diam. of Cylinders 650 m.m., Stroke 1200 m.m., Span of bearings 840 m.m., Max. Press. in Cylinders 60 kgs/cm², M.I.P. 5.904 kgs/cm² and B.H.P. 4900, the proposed sizes of shafting viz:- Crank 460 m.m. ^{dia} and Thrust 460 m.m. ^{dia} merit approval.

The plans showing details of the crankshaft also merit approval. It is noted that dowel pins are not to be fitted and this is in order provided the yield point of the material of the crank webs be not less than 50% of the ultimate tensile strength. It should be pointed out, however, that the shrinkage allowance usually employed is between 1/550 and 1/700 of the diameter instead of the smaller allowance indicated on the plans.

With reference to the material of the crankshaft it should be pointed out that with tensile strengths of 50 and 60 kgs/mm² the elongation, measured on a standard test piece, should be not less than 25% and 19% respectively.

The particulars of the auxiliary machinery mentioned in the Firm's letter are noted and it is concluded that a small auxiliary compressor, which does not require compressed air for starting up, will be fitted.

Return 3 plans.
Advise Surveyors (3 copies)
Retain 3 copies.

J. M. A.

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J. M. A. 19.4.38.



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