

Shipbuilders: Messrs. *Swan Hunter & Wigham Richardson* Yard No. *1567*

Engineers: Messrs. *do* Engine No. *1606*

It is submitted ~~that the plan of~~ *The Newcastle*
Surveyors be informed that the contents ~~merit approval~~
~~for~~ of the Firm's letter have been noted.

~~provided~~ It should be explained that the meaning
of the term "solid shaft" used in Secretary's
letter of the 2nd instant is that the diameter of
shaft stated is the minimum acceptable
diameter of shaft having no central hole, and
if a central hole is provided of such size
as to cause an appreciable reduction in
the strength of the shaft, the outer diameter
of the shaft would require to be increased
to give a section modulus equivalent to that
of an unpierced or "solid shaft" of 445 mm. dia.

It should be added that with
crankpin 436 mm. dia with 150 mm. central
hole the maximum cylinder pressure which
could be accepted for engines having
remaining particulars as stated in
Secretary's letter of the 2nd instant
would be 600 lbs./in.²

lt. m/n
~~Return plan.~~

~~Retain copy.~~

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I. R. M.
9-11-38
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Foundation
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