

CASE NO: 130F

SHIPBUILDERS: 'C' Type Coasters

Yard No:

ENGINEERS: "Enterprise"

Engine No:

IT IS SUBMITTED the *New York* Surveyors
be informed the torsional vibration characteristics of
the shafting installation of the ^{this} main machinery
have been examined in conjunction with the Firm's
calculations and merit approval for a service r.p.m. of

*it is noted that the vibration stress in the screwshaft
arising from the flank of the 4th order critical
speed at 16 per cent above the service speed of 300 R.P.M.
is considerably in excess of the stress of $\pm 5,300$ lbs/sq in
given in the Guidance Notes.*

*In the circumstances it is considered the
service speed should be reduced to 290 R.P.M. before
approval can be given. and further, that this
restriction will not be required if torsionograph
records indicate that the vibration stress in the
screwshaft does not exceed the value quoted above.*

Copies of any torsionograph records taken should

Return — plan(s) and — Firm's calculation sheet.

Retain — cop(ies) of plan.

Retain ~~set~~ cop(ies) of Firm's calculation sheet in
Research Files.

be forwarded to this Office for examination.

L 12/11

W1178-0079

8-11-46.