

PROP TESTS with CATALAC 8m and 20hp Yamaha 4 stroke outboard.

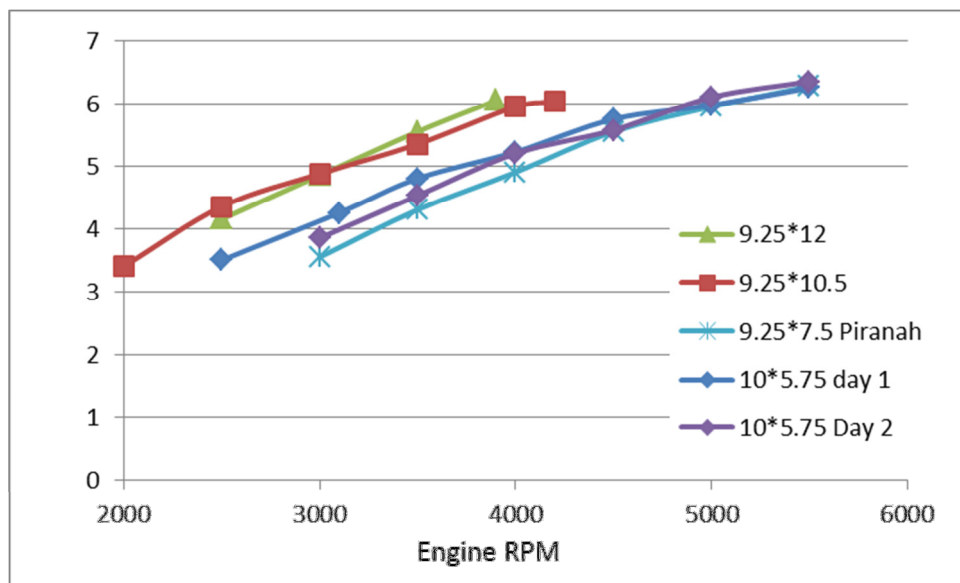
All tests show the average speed in kts as measured from runs in opposite directions, taken with GPS. The Outboard's RPM was held constant for each run.

The 10*5.75 inch prop was a 4 blade, cut down from an original high thrust Yamaha prop. The others were standard 3 blades.

With the 10.5 pitch and 12 inch pitch props, the motor would not rev faster than about 4000 rpm as shown.

Top speed was slightly faster with the 5.75 pitch 4 blade prop.

From my recollection, the 4 blade had noticeably better thrust in reverse.



After doing these trials, I kept the 5.75 inch 4 blade prop. We can punch waves reasonably, but when motor sailing, the engine has a very narrow "useful" range, and if the wind speeds up, the engine is tempted to over-rev.

This year (2013) I am going to try out the 12 inch pitch to see if makes any noticeable difference in motor sailing, and if the thrust is adequate to punch waves.

Dagnall