# Propeller Sea Trial Data

Fill this in on screen or print it, then email it to roderick@kingpropulsion.com. The analysis is free.

| | | | |
|---|---|---|---|
| Name | | Date | |
| Phone | | Email | |
| Boat | | Propeller serial | |
| Engine model | | Gearbox | |
| Rated power (hp) | | Gearbox ratio | |
| Rated max rpm | | Wind | |
| Sea state | | Load / crew | |

Speed measured by ☐ GPS (speed over ground) ☐ Boat log

## How to run it

- Pick a reasonably calm day, with the boat at its normal cruising load.
- Run once each way over the same stretch of water: two runs cancel out the current and wind.
- At each rpm, hold steady until the speed settles, then note it. MAX is the highest rpm the engine reaches at full throttle.
- Skip any rpm step your engine can't reach, and note anything odd (vibration, smoke, noise) in the comments.

| First run | | Second run (opposite way) | | Comments |
|---|---|---|---|---|
| **RPM** | **Knots** | **RPM** | **Knots** | |
| 1000 | | 1000 | | |
| 1500 | | 1500 | | |
| 1800 | | 1800 | | |
| 2100 | | 2100 | | |
| 2400 | | 2400 | | |
| 2700 | | 2700 | | |
| 3000 | | 3000 | | |
| 3300 | | 3300 | | |
| 3600 | | 3600 | | |
| **MAX** | | **MAX** | | |

MAX row: write in the rpm the engine reaches at full throttle, and the speed at that rpm.

**Tachometer at the dock, out of gear** Idle rpm Max rpm

**Anything else we should know?**