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We All Get Heavier as We Age – Even Our Boats!

By Vincent Pica

We keep getting reminded that we are getting heavier as we get older. No matter where we turn, someone is telling us that we are getting fat and need to be thinner!

Guess what? So are our boats! Yes, as boats get older, they get heavier and that has a lot to do about being less "sea-kindly" and more "tender" as they get older (and our reflexes get slower – not a particularly good combination.) Here are some examples.



We add things to our boat that weren't there when we bought it. An ice chest may be added so we don't have to lug one from the car. We add an additional ice chest so we can bring more ice so we can stay out longer and catch more fish (hopefully!). We pile up the cuddy cabin, aka, the boat's attic, with safety and fishing equipment so we don't have to lug them from the car. More insidiously, through tiny cracks in the gel coat, water seeps inside the hull and the boat gets eight lbs heavier per gallon... and it seeps, generally, aft, where the boat is naturally heavier per square foot of hull due to the engine, making it harder to see over the bow when you gun the engine and start to "dig the hole" that getting up on plane gets you out of; and now it's harder to get on plane, i.e., you have to go faster, to get up on plane since the boat is heavier in the stern than when it was manufactured – an endless spiral.

And don't forget that new 4-stroke engine you added – so much quieter, so much more fuel efficient and so much heavier per "horse of power" – at least 20 percent heavier would be my guesstimate – that makes a 400 lb 200hp 2-stroke weigh in at nearly 500 lbs as a 4-stroke state-of-the-art power plant... and the same hull sits in front of it.

What to do? There are only two or three things that you can do. First, get rid of anything that isn't essential. There are 10 weekends in a summer. You aren't going to boat on every one of those 20 days – unless you're between spouses and looking for one that wants to live on the boat with you! How much of a big deal is it to cart just the things you need – not everything you own all the time – from the car or the dock locker that you installed at the foot of your slip?

Second, you may be well-served by adding some ballast to the bow area. While you're making the boat even heavier, you're adding it in a fashion that will allow her to sit on her original water line – the way she was designed to sit. A good surveyor can tell you how much and where to add the lead "pigs"... please don't guess!

Third, you may need to change your prop. The engine may be plenty powerful enough to move your

mini-warehouse, but it can't turn the propeller any faster due to its pitch (angle that it cuts through the water.) Counter-intuitively, you need a smaller prop/tighter pitch, not a larger one, to enable the engine to rotate the shaft more rapidly. Think about the little tires on your trailer keeping pace with the big tires on your truck – they HAVE to move faster to keep pace. Talk to your dock master about who he or she uses when they re-engineer props for customers. Go see them and talk about your options. This is some art, some science and some superstition. Talk it through with people who make a living engineering propellers. It will make a difference.

If you don't think about these things, "you gonna need a bigger boat..." (Yes, Virginia, it has been 30 years....)

About the Author: *Vincent Pica is a coxswain and the Commander of Flotilla 18-06 East Moriches. He was a navigator in a brown-water and blue-water sailboat racing crew for eight seasons. From the "iron sails" side, he is a licensed US Coast Guard Master of Steam and Diesel Powered Vessels, carries a Radar Observer endorsement, Unlimited, on his license and is certified in Marine Diesel Engine Operation and Maintenance.*

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