Test #1: Vibrations and Fuel Economy

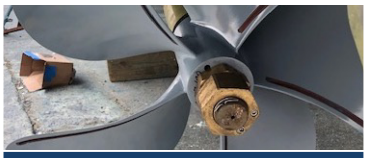
Testing performed by IMANNA Laboratory Inc., an ISO/IEC 17025:2017 Accredited Lab:

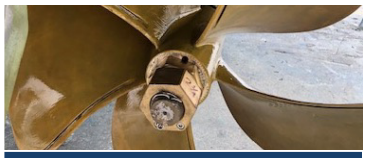
- Test propellers were installed on an Evinrude 90 hp outboard marine engine and run in the water while recording RPM, vibration, and fuel economy.
- Vibrations were measured at varying RPM levels at two locations on the engine: The steering arm and the shaft near the waterline.
- Fuel economy was measured by running the engine at 3,000 RPM for a set period of time and measuring fuel consumption.

Results

The results indicate that the Mussel Buster coating provides the lowest vibration up to 3,000 RPM and provides the best fuel economy when measured at 3,000 RPM.

G = gravitational acceleration constant
g.p.h. = gallons per hour





@3,000 RPM	MUSSEL BUSTER	LEADING COMPETITOR
SHAFT VIBRATION	2.0 G	2.5 G
STEERING ARM VIBRATION	0.8 G	0.9 G
FUEL ECONOMY	4.38 g.p.h.	6.67 g.p.h

Test #2 – Surface Roughness Variation

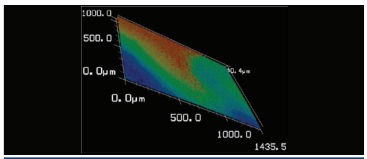
Testing performed by the University of Delaware Center for Composite Materials (CCM):

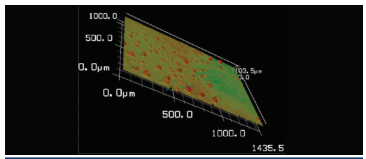
- Testers coated No. 3 finish stainless steel sheet according to coating manufacturers' specifications.
- Measurements obtained using Keyence VK-X200 laser microscope.
- For all measurements, the lowest numbers are the most desirable, indicating a smoother surface.

Results

The lower surface roughness of Mussel Buster in all categories can relate directly to better fuel economy and less biofouling on coated propellers.

µm = micrometer or micron





SURFACE	MUSSEL BUSTER	LEADING COMPETITOR
PEAKS	21 µm	40 µm
VALLEYS	20 µm	64 µm
HEIGHT PROFILE	40 µm	103 µm
ROUGHNESS VARIATION	2.52	17.00

For More Information
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