



orion[®]5000

ENGINE LUBRICATING SYSTEM

(888) 785-8450 • sales@orion5000.com • www.orion5000.com

The Issue: How can we prove the effectiveness of our Orion 5000-EL Engine and Fuel Lubricant?

The Details: Laboratory and standardized tests don't deliver real world results, and are not tailored for a technology like Orion 5000-EL. Real world performance is the best test-bed for Orion. Our engine lubricating system brings great cleaning and lubricating benefits which lead to improved fuel efficiency. But, it is difficult to get people to believe it. Wouldn't it be great if we could test two diesel engines, side by side, operating in the same conditions at the same time?

The Answer: The *Great Lakes Trader and Joyce L. VanEnkevort Tug & Barge* provided such an opportunity.

This vessel is the 16th largest carrier on the Great Lakes, is 740 feet long, and can carry 39,600 tons. It is powered by twin 5,000 horsepower Caterpillar 3612 12-cylinder engines sitting side-by-side operating together simultaneously. It was the perfect testing environment for Orion 5000-EL.

The Facts: Orion 5000-EL analyzed baseline fuel results for the *VanEnkevort* port engine and starboard engine while operating simultaneously and burning the same diesel fuel. The baselines were gathered for each engine and analyzed. During the baseline phase, the starboard engine burned slightly more fuel than the port (1.20%). After treatment with Orion 5000-EL, the results were tallied:

	Port Gallons	Starboard Gallons	Difference
Baseline Phase (Untreated)	10,591	10,781	1.20%
Orion 5000-EL Treated Phase	43,083	41,098	(4.83%)
Net % Change (Improvement)			(6.03%)

The Orion 5000-EL treated starboard engine actually burned less fuel than the untreated port engine by 4.83%. When considering this engine burned more fuel during the baseline phase, the total impact of Orion 5000-EL improving the efficiency of the treated starboard engine equaled a 6.03% reduction of fuel consumption! For every million gallons burned at \$3.50 per gallon, the savings adds up to \$211,000!

The Solution: **Orion 5000-EL Engine and Fuel Lubricant!** Clean and lubricate your way to savings by increasing your engine's operating efficiency using Orion 5000-EL!