# FLASHPOINTS

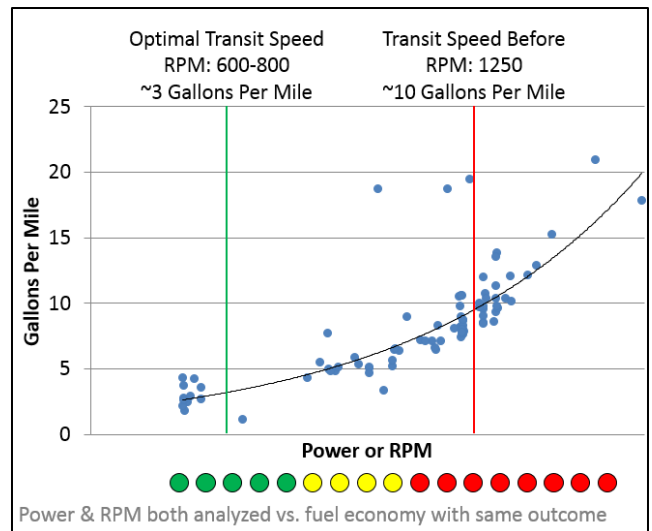DATA-DRIVEN SOLUTIONS THAT IGNITE CUSTOMER SUCCESS.

# CAT® ASSET INTELLIGENCE HELPS OPTIMIZE TUG TRANSIT SPEED AND REDUCE FUEL BURN

## What Happened?

Using the Cat Asset Intelligence automated analytics combined with the expertise of the Marine Asset Intelligence (MAI) Fleet Advisor, an opportunity to adjust transit speed (during non-time-sensitive transits) was identified, helping the customer reduce fuel consumption.

## What Was the Underlying Cause?

After discussions with the customer's technical leadership, operations managers and the onboard crew, it was found that the engines were operated at a specific speed because 'the engines sound good at that speed.' A deeper analysis by the Fleet Advisor using the Asset Intelligence analytics platform revealed the optimal vessel speed and engine power/speed. The Fleet Advisor then used Asset Intelligence, combined with an analysis of the vessel's operating logs to determine the potential value based on optimizing the speed for transits that are not time constrained (i.e., when crew is already on duty 24 hours per day and there is no other requirements limiting the tug's start time for the transit).



Power & RPM both analyzed vs. fuel economy with same outcome

## What Was the Value to the Customer?

By transiting at the optimal speed during transits that are not time constrained, the value to the customer was a 70% reduction in fuel cost for that transit time, equaling $110,000 in fuel savings across the year.

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