

AT A GLANCE

CUSTOMER

Mike Frost Trucking, Inc.

LOCATION

Varnell, Georgia

CHALLENGE

Find a retrofit engine cooling solution that improves fuel economy, reduces engine noise and increases available engine horsepower

SOLUTION

A retrofit kit consisting of a Horton RCV250 variable-speed fan drive and the associated components necessary to install it

RESULTS

Improved fuel savings, quieter operation and decreased parasitic loss

PRIMARY CHOICE FACTORS

Horton's reputation for providing performance-tested aftermarket upgrade packages that increase efficiency on heavy-duty trucks

Variable-Speed Fan Drive Conserves Fuel, Reduces Noise and Increases Available Engine Horsepower



Mike Frost and one of the heavy-duty trucks in his fleet

Background

Mike Frost owns and operates Mike Frost Trucking, Incorporated, in Varnell, Georgia. His company provides long-haul transportation services in the southeast and western United States. One of the primary variables that affects profitability in his operation is the cost of diesel fuel. Finding ways to conserve fuel, while ensuring optimal vehicle performance, are goals Mike and his drivers continually strive to achieve from the office and on the road.

Challenge

A number of Frost's rigs came with Horton cooling systems pre-installed by the factory. Knowing the performance he was getting with the pre-installed cooling equipment, he wondered if Horton offered a variable-speed, retrofit solution that he could apply to his fleet for even better performance. Further, he wanted to be confident that the aftermarket solution would help improve fuel efficiency and uptime, while reducing noise.

Solution

The solution was a retrofit kit consisting of the Horton RCV250 variable-speed fan drive and the related components to install it.

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Case Study – Heavy-Duty Trucks

Results

Since applying the Modulator RCV250 kit on his other rigs, Frost has seen fuel economy improvements of approximately 1/10th a gallon over competitive products. Multiply those savings across an entire fleet for a year and it is easy to understand why Mike Frost Trucking embraced the retrofit solution.

“Without a doubt, Horton products have made a difference.”

*– Mike Frost
Owner
Mike Frost Trucking, Inc.*

“The Modulator is already paying significant dividends in the form of substantial fuel savings. Horton really has something here,” said Frost. “I believe that this will take the market and it will be standard on all trucks before too long.”

Also referred to as a “Modulator,” the Horton RCV250 variable-speed

fan drive retrofit solution affected other performance characteristics in Frost’s fleet. One of these was noise. According to Frost, “My drivers appreciate the quieter operation of the Modulator. Most times they don’t even hear it engage.”

Another performance characteristic that changed for the better was available horsepower which is important on steep grades. The Modulator RCV250 variable-speed fan drive is designed to turn the vehicle’s fan at the exact speed required to maintain the engine’s optimal cooling range. By engaging only as needed and with the fan drive’s lower idle speed, parasitic losses are reduced, making more horsepower available for work.

Frost further commented, “The variable-speed operation of the Modulator also prevents a lot of wear and tear on belts and tensioners because the fan isn’t always on and this translates to lower maintenance costs and more uptime. But in my business, it’s all about mileage,” said

Frost.



The RCV250 variable-speed fan drive installation

Truck owners can improve their fuel economy, reduce engine noise and increase available engine horsepower by installing Horton Modulator RCV250 variable-speed fan drives on their vehicles.



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