

# CROWLEY SAVES FUEL...



## with Interstate ECOTIP® Injectors

“Crowley Liner Service installed ECOTIP® green tag injectors in the Sentry’s port main engine in May 2004 to initiate a test of the injector’s ability to save fuel. The starboard engine was fitted with remanufactured injectors that had been our standard supply for a comparison test. The main engines are fitted with a fuel oil metering system that will track and log the information supplied from the meters. The vessel was operated during the entire testing period as we would any of the vessels in this service.

“The majority of the operating time would have been high rpm and heavy load on the engines required to maintain the liner service schedule. The fuel burnt during the test came from the suppliers that all of our vessels fuel from. Maintenance was done as per Crowley’s schedule. The vessel was operated in the rotation and various crews were on it. During the test period, the engine with the ECOTIP® injectors consistently showed between 2 and 3 percent lower fuel consumption in our service.

“Since we did realize reduced fuel consumption during this test, all of the engines in the vessels used in the line haul service have been changed to the ECOTIP® injectors. The average reduction in fuel consumption over the life of the testing period is 3.01%.”

*Crowley Liner Services, Inc., Engineering Department*

### ECOTIP® Superstack Injectors



**Green Tag ECOTIP® Superstack Injectors** – Deliver 3% more fuel savings, reduce smoke opacity by 75% and lower particulate matter emissions by 44%.



**Red Tag ECOTIP® Superstack 2000 Injectors** – Combine many of the features of our other injectors in an Electro-Motive 710 Tier 0 Injector.



**Blue Tag ECOTIP® Ultrastack Injectors** – Provides faster needle response to optimize fuel atomization and lower emissions.



**Black Tag Special Injectors** – Built-to-design injectors reduce NOx emissions as much as 40%. Can be designed to prevent wet stacking, reduce visible smoke, accommodate light or heavy loads or handle long idle times.



Serving the Railroad Industry with Quality Since 1947.

## Interstate Diesel

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