

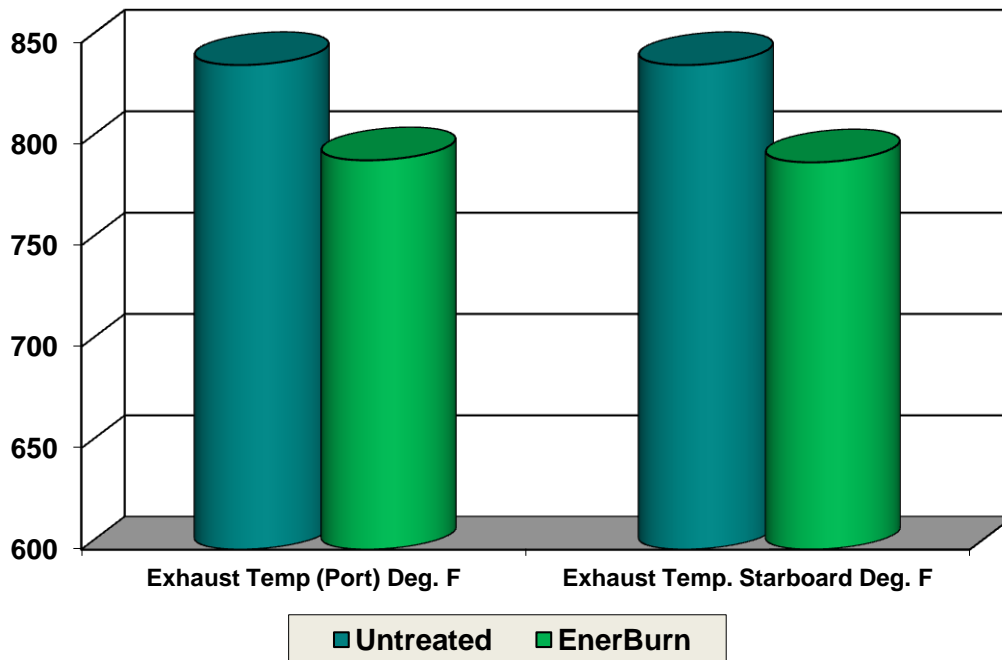


EnerBurn® Success Story:

NO_x Production in Diesel Engines©

Introduction: *NO_x is formed as a by-product by diesel engines and generally increases with Exhaust Gas Temperature (EGT). Newer OEM engine designs have improved combustion efficiency to meet more stringent requirements for diesel particulate matter (DPM) emissions but often at the expense of increased NO_x production ¹. EnerBurn® conditions diesel engines to improve fuel combustion efficiency by increasing the burn rate of diesel during the power stroke of the piston. As a consequence in-cylinder combustion is more complete and EGT is reduced thereby lowering NO_x production.*

Background: *Diesel Engine Exhaust Gas Temperatures (EGT) measurements with and without EnerBurn®. EGT measurements performed by Southwest Research Institute. www.swri.org*



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Results & Conclusions: *Percent Reductions in NOx emissions with respect to Baseline versus new Benchmark emissions data using diesel treated with Enerburn®. Exhaust emissions measurements performed in the field by Emisstar, LLC.*

Engine Manufacturer	Rated Horsepower	% Reduction in NOx
EMD (General Motors)	2280	14%
Diahsu 6DSM	1800	17%
Mirrlees Blackstone	1200	18%

1 *“Diesel Emission Control Strategies Available to the Underground Mining Industry”, February 24, 1999, ESI International, 1660 L Street, NW, Ste 1100, Washington, DC 20036*

