



EnerBurn® Success Story:

Hydraulic Fracturing Pump Diesel Engine Test©

Introduction: *Enerburn® fuel combustion catalyst was used to achieve significant reductions in exhaust gas emissions for a Tier 2 Caterpillar Engine. Test measurements were performed by an EPA-certified emissions testing company.*

Background: Summary of Engine and Testing Details.

Engine Manufacturer & HP	2010 Caterpillar 3512, 2250 hp, Tier 2
Oilfield Services Company:	confidential
Engine Test Conditions:	constant horsepower
Test Period:	2012
Test Engineering Company	Emisstar, LLC., www.emisstar.com

Results & Conclusions: *Summary of Baseline versus new Benchmark emissions data using diesel treated with Enerburn®. All units are in grams/horsepower-hour (g/hp-hr).*

Test Conditions: 75% Load at 1600 rpm			
Air Pollutant	Baseline	with EnerBurn™	% Improvement
CO ₂	300.81	265.41	12%
CO	0.68	0.58	15%
THC	0.067	0.049	27%
PM	0.080	0.053	34%

Test Conditions: 75% Load at 1800 rpm			
Air Pollutant	Baseline	with EnerBurn™	% Improvement
CO ₂	299.81	263.91	12%
CO	0.56	0.48	13%
THC	0.067	0.055	19%
PM	0.100	0.045	55%

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