



Partial List of Fitch Fuel Catalyst Evaluations Listed in Reverse Chronological Order as of August, 2016

Testing Facility	Location	Test Type	Engine Make	Engine Model	Application	Highlights of Test
On board vessel & Hawthorne Power	Am. Samoa	Timed weight change	Caterpillar	3412	Power Gen	5-12% reduction in gallons per kilowatt-hr
Hawthorne Power	San Diego	Engine Dyno	Caterpillar	3412	Propulsion	Increased power/torque, better performance
Hawthorne Power	San Diego	Resistive Load Bank	Caterpillar	3406	Power Gen	Avg 0.25gph fuel savings from 0-100% load factor
SSA Container Terminal 30	Seattle, WA	Timed weight change	Cummins	855, 350kw	Refrigeration ULSD #2	3.85% reduction in fuel consumption expressed in gal/kilowatt
SSA Container Terminal 18	Seattle, WA	Timed weight change	Yanmar	TK486VG, 40kw	Refrigeration ULSD #2	over 5/11% reduction in fuel consumption in cool down/maintenance mode tests
SSA Terminal Pier 6/Harbor Diesel	Long Beach, CA	Timed weight change Chassis dyno	Edelbrock-Chevy block	454 Turbo(new) modified	Cargo Handling, gasoline	3% increase in fuel econ/2% increase in hp, engine ran smoother
LB Unified School District Maint.	Long Beach, CA	Smoke opacity	Detroit Diesel	671 rebuilt	School bus ULSD #2	reduced opacity reading 28% over 90-day period (~6,000 miles) of monitoring every 2-weeks
Spicers Paper Distribution Center	Santa Fe Springs, CA	Emissions testing equipment	Caterpillar	4-cyl forklift	Cargo Handling, propane	16.2%/53.1% reduction Nox+HC/CO in same day testing with/without FFC, 14% reduction over 2-month interval with device installed on same lift
E.P. Barrus	Oxfordshire, U.K.	Engine dynamometer	Yanmar	4LHA	Propulsion Euro Diesel	2.5 to 5.7% reduction in fuel consumption over entire speed range of engine(low to high)
Millbrook Proving Ground LTD	Bedford, England	Road testing on controlled track	DAF 85 Truck	RX54 CPO	Trucking Euro Diesel	5.3/4.0/1.8% reductions in fuel cons during urban/suburban/motorway modes FIGE test
City of Allentown, Bureau of Streets	Allentown, PA	Fuel monitoring	Elgin Pelican	4.5L, 99hp	Diesel Street sweeper	11.1% reduction in fuel consumed over 410 hour comparison period
National Poly-technical Inst.	Athens, Greece	Laboratory engine	Ricardo-Cussons	Hydra, 1 cylinder	Lab tests Euro Diesel	fuel reduction in range of 4 to 5%in low-middle rpm and load ranges
Energy Research Center	Easton, CT	Fuel and emission measurements	Johnson Boiler	350 ton	Residential heating, #6 fuel oil	5% reduction in fuel consumption, 1.2% increase in boiler efficiency, 15%/98% reduction in NOx/CO emissions
CSX Intermodal	New Bedford, IL	Fuel monitoring	Cummins & DDC	Various cranes and yard tractors	Cargo Handling, diesel	4 to 13% reduction in fuel consumption
Union Pacific Rail Yard	Long Beach, CA	Fuel and emission measurements	Caterpillar	Series 50	Cargo Handling, DF-2	5% reduction in fuel consumption on gantry crane lifting 60,000 pound container
Intertek Caleb Brett Lab	New Haven, CT	ASTM fuel analyses	n/a	n/a	Lab tests ULSD #2	9% reduction in PAH, 29% increase in fuel lubricity

Interfleet Technology	Derby, U.K.	Engine dynamometer	Cummins	NTA855R3	Propulsion Euro Diesel	2 to 5% increase in hp, overall 4% reduction in fuel consumption
OceanAir Environmental, LLC	Somis, CA	Resistive load bank	EMD	12-567CE	Locomotive '06 Diesel	11.83% reduction in fuel cons(9-mode avg), emissions improved Tier 0 to 2 except for CO
Univ. of Conn., Dept. of Chemistry	Storrs, CT	Bacteria growth on B20 bio-diesel	n/a	n/a	Lab tests B20 diesel	FFC retards spoilage of biodiesel, also inhibits separation of fuel from organic component
Univ. of Conn., Dept. of Chemistry	Storrs, CT	Bio-contaminated fuel	n/a	n/a	Lab tests '05 Diesel	suppressed bacteria growth, cleared up turbid fuel after 2-months in storage
American General HQ	Livonia, MI	Road testing on controlled track	Humvee "Buster"	6.5 liter	Trucking '05 Diesel	5.3% reduction in fuel consumption confirmed by SAE J1321 Type 2
OceanAir Environmental, LLC	Somis, CA	Chassis dynamometer	Detroit Diesel	Series 60	Trucking '04 Diesel	4.87% reduction in fuel cons, 50hp improvement at the wheel, 68% reduction in smoke opacity
OceanAir Environmental, LLC	Somis, CA	Chassis dynamometer	International Navistar	DT466	Trucking '04 Diesel	5.75% reduction in fuel cons, 6.36% reduction in PM and almost 23% reduction in smoke opacity
Vehicle Engine and Emissions Testing	Ronkonkoma, NY	Chassis dynamometer	Duramax	6.6 Liter	Trucking '04 Diesel	14.5% reduction in fuel cons, 29% reduction in PM and 13% reduction in NOx emissions
Univ. of Conn., Dept. of Chemistry	Storrs, CT	Gas Chromatography & Nuclear Mag Resonance	n/a	n/a	Lab tests '03 Diesel	increase in beneficial oxygenating aliphatic molecules commensurate with reduction in harmful aromatic molecules
Darr Power Systems	Dallas, TX	Chassis dynamometer	Caterpillar	3306, 300hp	Trucking '03 Diesel	2-10% improvement in fuel economy depending on load, grade and cruising speed, truck simulated climbing same grade in higher gear
Univ. of Conn., Dept. of Chemistry	Storrs, CT	Chemical analysis	n/a	n/a	Lab tests Gasoline	increased octane number of gasoline

All of the reports in the above list are available upon request. Please contact your Fitch sales representative or dealer to request an electronic or printed copy of each report desired. If you do not have a sales rep working with you, please contact:

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