FUEL EFFICIENCY

FIELD TEST of CITGARD® 700

HEAVY DUTY ENGINE OIL

Atlas Oil Fuel Economy Benefits Using CITGARD 700 Synthetic Blend 10W-30

LET US PROVE IT
CITGO LUBRICANTS

ATLAS®

Atlas Oil Company has solidified a partnership with CITGO Lubricants to be an approved nationwide distributor of their performance-focused products. Having some of the largest transportation fleets as customers in addition to owning and operating our own fleet of hundreds of trucks, we understand that fuel can often be a significant operational cost. In fact, fuel can represent 40% of a commercial fleet's operations budget.

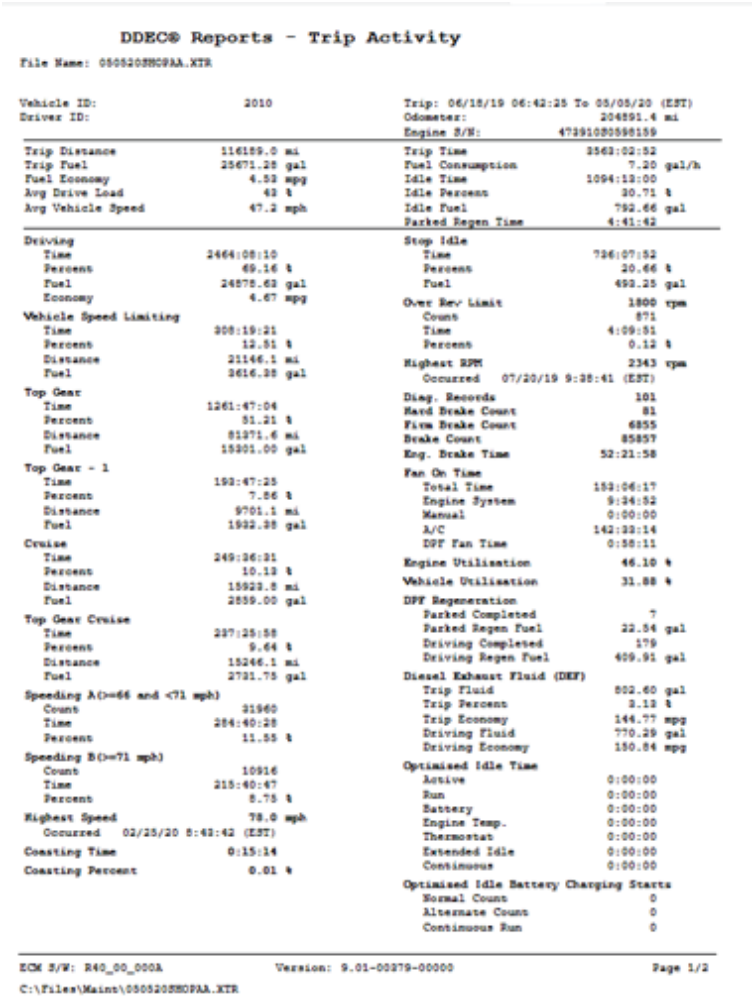
At Atlas, we're dedicated to finding innovative solutions that improve our customers' bottom line and an improvement in fuel efficiency would translate into significant savings for any large fleet.

Adopted by America's leading fleets and recommended by engine manufacturers, CITGO has offered a double your money back guarantee on its CITGO CITGARD 700 Synthetic Blend 10W-30 Heavy Duty Engine Oil. The program assures 1.5% fuel savings as part of its no risk field test. Entirely standing behind the products we sell, Atlas decided to put it to the test.

The Field Test

Over a two-month period, Atlas conducted a field test to prove out the benefits on fuel economy as promoted by CITGO.

Source data for this assessment was pulled directly from each tractor's Engine Control Monitor (ECM), with a population of vehicles operating in the tankwagon and transport core business functions. Engine types included in the test were Paccar, Detroit Diesel, and Cummins. Baseline performance was established prior to each complete engine oil replacement performed by our Home Office Taylor, MI maintenance professionals.



DDEC® Reports - Trip Activity

File Name: 0505205HOPAA.XTR

Vehicle ID:	2010	Trip: 06/15/19 06:42:25 To 05/05/20 (EST)	
Driver ID:		Odometer:	204591.4 mi
		Engine S/N:	4739108059159
Trip Distance	116159.0 mi	Trip Time	3563:02:52
Trip Fuel	25671.25 gal	Fuel Consumption	7.20 gal/h
Fuel Economy	4.53 mpg	Idle Time	1094:13:00
Avg Drive Load	62 %	Idle Percent	30.71 %
Avg Vehicle Speed	47.2 mph	Idle Fuel	792.66 gal
		Parked Regen Time	4:41:42
Driving		Stop Idle	
Time	2464:08:10	Time	736:07:52
Percent	69.16 %	Percent	20.66 %
Fuel	24875.62 gal	Fuel	493.25 gal
Economy	4.67 mpg	Over Rev Limit	1800 rpm
Vehicle Speed Limiting		Count	871
Time	308:19:21	Time	4:09:51
Percent	12.51 %	Percent	0.12 %
Distance	21146.1 mi	Highest RPM	2343 rpm
Fuel	3616.38 gal	Occurred	07/20/19 9:38:41 (EST)
Top Gear		Diag. Records	101
Time	1261:47:04	Hard Brake Count	81
Percent	51.21 %	Firm Brake Count	6855
Distance	81371.6 mi	Brake Count	85857
Fuel	15301.00 gal	Eng. Brake Time	52:21:58
Top Gear - 1		Fan On Time	
Time	193:47:25	Total Time	153:06:17
Percent	7.86 %	Engine System	9:34:52
Distance	9701.1 mi	Manual	0:00:00
Fuel	1932.38 gal	A/C	142:33:14
Cruise		DPF Fan Time	0:58:11
Time	249:36:31	Engine Utilization	46.10 %
Percent	10.13 %	Vehicle Utilization	31.88 %
Distance	15923.5 mi	DPF Regeneration	
Fuel	2859.00 gal	Parked Completed	7
Top Gear Cruise		Parked Regen Fuel	22.54 gal
Time	237:25:58	Driving Completed	179
Percent	9.64 %	Driving Regen Fuel	409.91 gal
Distance	15246.1 mi	Diesel Exhaust Fluid (DEF)	
Fuel	2731.75 gal	Trip Fluid	802.60 gal
Speeding A(>=66 and <71 mph)		Trip Percent	3.13 %
Count	31960	Trip Economy	144.77 mpg
Time	284:40:28	Driving Fluid	770.29 gal
Percent	11.55 %	Driving Economy	150.84 mpg
Speeding B(>=71 mph)		Optimized Idle Time	
Count	10916	Active	0:00:00
Time	215:40:47	Run	0:00:00
Percent	8.75 %	Battery	0:00:00
Highest Speed	78.0 mph	Engine Temp.	0:00:00
Occurred	02/25/20 5:43:42 (EST)	Thermostat	0:00:00
Coasting Time	0:15:14	Extended Idle	0:00:00
Coasting Percent	0.01 %	Continuous	0:00:00
		Optimized Idle Battery Charging Starts	
		Normal Count	0
		Alternate Count	0
		Continuous Run	0

ECM S/W: R40_00_000A Version: 9.01-00279-00000 Page 1/2

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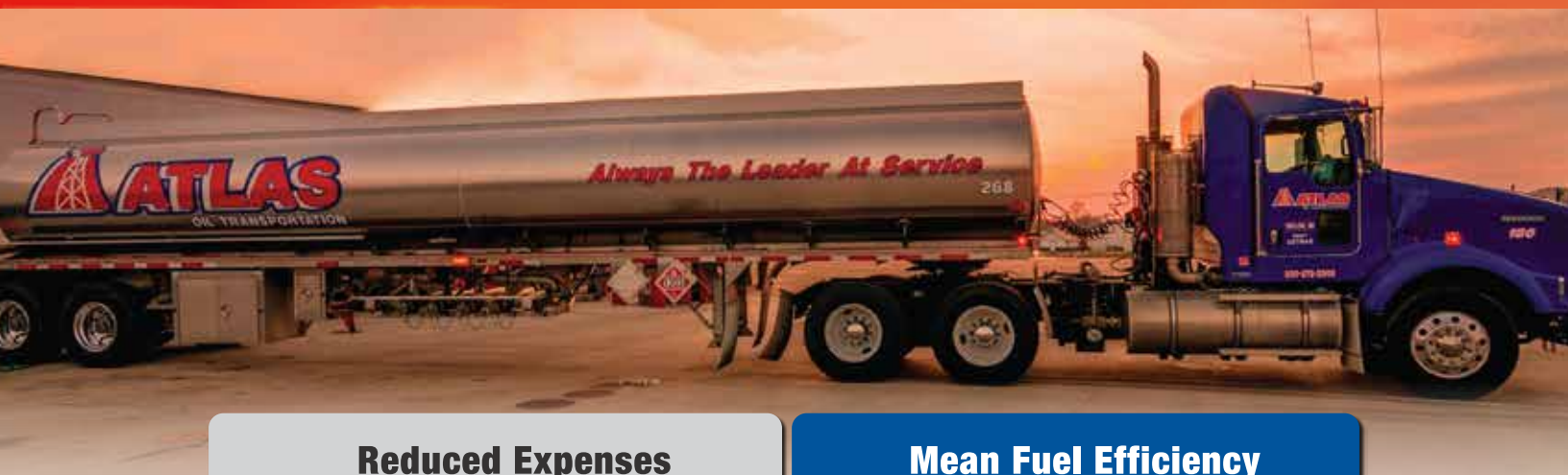
Figure 1) Example data extracted from Vehicle's 2010 Engine Control Monitor

Who Else Made The Switch?

#1 Class 8 For Hire Fleet in North America
#1 Private For Hire Carrier in North America
#1 Flat Bed Transporter
#1 Bulk Food Hauler in North America
#1 Intermodal Transporter
#1 Concrete Pumper in North America

ATLAS®



Reduced Expenses

$153K

Per Year Savings!

Mean Fuel Efficiency

3.82%

Improvement Per Gallon!

Fuel Efficiency Improvements

Our results did confirm fuel efficiency improvement, outperforming the guaranteed 1.5% fuel savings. Compared against the baseline performance and control group, individual fuel efficiency improved between 2.28% to 4.89% with a mean improvement of 3.82%. Using our own calculation on a fleet that runs on average 142,000 miles per week, reduced gallons burned is 61,139.37 generating $152,848 in reduced expense dollars per year.

The simple process of switching to CITGO CITGARD 700 Synthetic Blend 10W-30 Heavy Duty Engine Oil will provide you an immediate return on investment.

Contact Atlas Oil to see if you qualify for the guaranteed fuel efficiency program and learn more about how some of America's largest fleets are making the switch to **CITGARD 700 Synthetic Blend 10W-30**.

Let us prove it!
800.878.2000

Calculate Your Savings Today!

SWITCH TO
CITGARD® 700 10W-30
and CITGO will **guarantee fuel savings** of up to 3% or **double your money back!**

100% GUARANTEE

LET US PROVE IT

NOT ALL 10W-30s ARE CREATED EQUAL!

The program combines fuel efficient engine oils, the CITGO LubeAlert Fuel Monitoring Service and personalized sales and technical support. For complete details, visit **www.citgolubes.com/guaranteed-efficiency-program**.

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Fuel Efficiency Field Test of CITGARD 700 10W-30