



TEST-B103

Test Overview

- Fuel economy test to confirm the effectiveness of new vehicle technologies.
- Developed specifically to simulate the conditions of the trucking industry.
- Compares the fuel consumption between the control and treated trucks.
- Multiple test runs to ensure repeatability. Average result reported.
- Test has a high level of accuracy and repeatability.



Fuel Consumption Determined by Weight

Test Driving Conditions

- One control truck and one test truck operated simultaneously.
- Fuel consumption measured by simulating a long-haul highway route.
- Steady state driving at 65 mph for a distance of 57 miles on test track.



8.5 Mile Oval Test Facility - Uvalde, Texas

Identical Trucks - Late Model, Low Mileage

	Test Truck	Control Truck
Make	Freightliner	Freightliner
Model	Cascadia	Cascadia
Year	2017	2017
SOT Odometer	67649	36945
Engine Make	Detroit Diesel	Detroit Diesel
Engine Model	DD15	DD15
Engine Family	HDDXH14.8EAD	HDDXH14.8EAD
Tire Size - Steer	295/75 R22.5	295/75 R22.5
Tire Size - Drive	295/75 R22.5	295/75 R22.5
Tire Type - Drive	Truck Radial	Truck Radial
Test Weight - Total	62560	62560
Trailer Specifications		
Make	Wabash	Wabash
Model	DVCVHPC	DVCVHPC
Year	2012	2014
Type	53' Dry Van	53' Dry Van
Tire Size	295/75 R22.5	295/75 R22.5
Number of Axles	2	2
GVWR (lbs)	68000	68000
GAWR (lbs)	2@20000	2@20000

Test Results

% Improvement: 2.24%
Confidence Interval: +/- 0.78%

Stringent Test Requirements:

- Fuel consumption measured by weight - very accurate method.
- The control and test trucks must repeat run times with +/- 0.5%.
- All runs for each truck must repeat with +/- 0.25%.
- Weather conditions closely monitored to ensure consistency between runs.
- Test result recorded an excellent confidence interval, indicating that the results achieved are highly reliable.



2017 Freightliner Test Trucks



800 727-6019

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For further information, please contact Engine Armour Tech

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