

Brazilian Testing of Model HDD 8.1L Diesel Fuel Saver System On Mercedes Trucks

Northeast Brazil, AUGUST 18, 2011.

Objective: Analysis of Fuel Consumption before and after a 45 day test of FuelAid System HDD 8.1L for the purpose of saving fuel and reducing the emission of pollutants.

The testing and its results are from a sugar/ ethanol refinery in the Northeast of Brazil. The two large Mercedes trucks tested with the HDD 8.1L System pull up to 10 trailers each from the sugar cane fields to the refinery. Each trailer hauls 18 tons of sugar cane so each truck pulls up to 180 tons of cargo – about 200 tons with the weight of the trailers.

Test vehicles - Mercedes Benz 12 liter engines :



Mercedes - Tractor Trailer Model 3340 AXOR 6x4 - No Equipment
4150247 - Manufacturing Year 2006, with 321,465 km / rotated

Mercedes Goods - Model 2635 6x4 Tractor Trailer - 20 Production Year
- No Equipment 3340173, with 274,872 km / rotated.

Company monitored fuel test: 45 day period. Results in table below:

Baseline - Normal Fuel Use in Blue
Test -Results in Red

VEHICLE	KM Before	KM Current	Km Drive n	Average KM/LT BASELINE Before Installation Test Results	DATE	LITERS	Price of diesel per Liter	Average Cost per Kilometer	Percent Savings
BASELINE				0.90			R\$ 1,8500	R\$ 2.0556	
MB AXOR 3340	321,465	324,814	3,349	1.37	31/7/11	2,439	R\$ 1,8500	R\$ 1.3473	34%
MB 2635	274,872	278,300	3,428	1.52	30/7/11	2,253	R\$ 1,8500	R\$ 1.2159	40%

Comments from Tests: “Based on the results, the tests were positive for substantial fuel savings. We also observed that the use of the [HDD 8.1L] equipment did not interfere with any other equipment or component in the vehicle being used. We conclude that the equipment had performed above expectations and we will continue the development and analysis of equipment.”

Savings from Tests

The following comparison regarding the economy results versus the normal fuel costs using the HDD 8.1L Diesel Fuel Saver System:

Baseline normal fuel costs in BLUE

DSS 8.1L Diesel Fuel Savings in RED

VEHICLE	Diesel Cost per liter	Cost per Km driven	Normal Km driven Per Mon	Savings in R\$	VEHICLE	AVERAGE Cost per Km driven	Normal Km driven per/mon	Savings in R\$
BASELINE COST PER /KM for Both Trucks		R\$ 2.0556 BASELINE	10.000			R\$ 2.0556 BASELINE	10.000	
MB AXOR 3340 Test Results	R\$ 1,85	R\$ 1.3473 (R\$ 0.7083 Saved)	10.000	R\$ 7,082,43	01 TRUCK	R\$ 1.2816 (R\$ 0.7739 Saved)	10.000	R\$ 7,739.57
MB 2635 Test Results	R\$ 1,85	R\$ 1.2159 (R\$ 0.8397 Saved)	10.000 Of	R\$ 8,396,72	FLEET OF 12 TRUCKS	R\$ 1.2816	120,000	R\$ 92,874.87
TOTAL MONTHLY SAVINGS On Both Test Trucks				R\$ 15,479.15	TOTAL 1 MONTH FLEET SAVINGS			R\$ 92,874.87
					TOTAL 5 MONTH SEASON FLEET SAVINGS			R\$ 464,374.37

Money Shown is in Brazilian "Real" which is \$0.58 at mid Sept 2011 exchange rate.

Monthly fleet savings: \$53,866
Total 5 month seasonal fleet savings: \$269,336.