



EA-2014-1

Engine Armour Tech™ Test Bulletin

DRD Experiment Department, Inc - Japan

Test Vehicle: Nissan Patrol

Emissions Test - Chassis Dynamometer

Background

Engine Armour Tech™ is an innovative new technology ceramic formula that significantly improves the lubrication and performance of rotating metal assemblies. This proprietary metal treatment reduces friction and wear of hot moving metal components and is proven to reduce operation and maintenance costs of engines, transmissions, gearboxes and more..

Test Overview

The purpose of the test was to evaluate the impact of Engine Armour Tech™ on engine emissions and fuel economy through the following generalized steps:



- Establishment of a Baseline:** Determine engine emissions and fuel economy prior to adding Engine Armour Tech™.
- Engine Treatment:** Engine Armour Tech™ is added directly into the oil reservoir and emissions as well as fuel economy are monitored over a total of 1159 Km using the standard 10-15 Mode operating condition.
- Transmission & Differential Treatment:** Engine Armour Tech™ is then added to the transmission and differential oil, and emissions and fuel economy are monitored after 70, 110 and 260 km using the standard 10-15 Mode operating condition.
- Change oil:** Oil is changed at the end of the test, and a final set of readings taken after running the engine for an additional 30 km (oil break-in period).

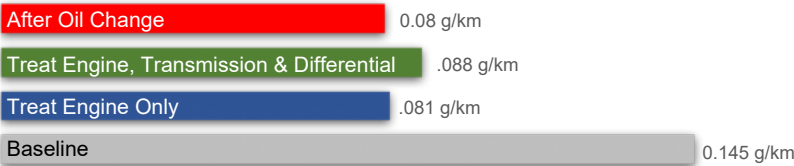
Test Reference: EA-2014-1T: DRD Exhaust Gas Fuel Consumption Test by Chassis Dynamometer - 2014

Test Results

	CO, g/km	THC, g/km	NOx, g/km	CO2, g/km	PM, g/km	FE, km/L	Odometer
Baseline (Before Treatment)	0.740	0.119	1.143	286.5	0.145	9.131	22966
Treat Engine Only	0.713	0.078	1.097	254.3	0.081	10.266	24180
Treat Engine, Transmission and Differential	0.708	0.084	1.118	260.3	0.088	10.053	24477
After Oil Change	0.690	0.077	1.122	261.7	0.080	10.000	24551
Overall % Difference After Oil Change	-6.76 %	-35.3%	-1.8%	-8.7%	-44.8%	9.5%	—

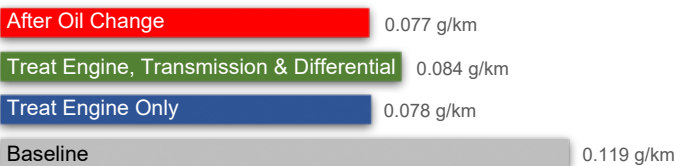
Particulate Matter

44.8% Overall Reduction



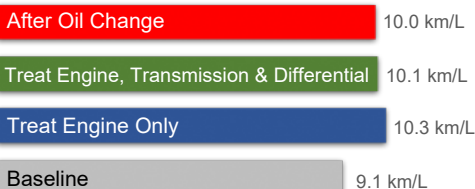
Total Hydrocarbons

35.3% Overall Reduction



Fuel Economy

9.5% Overall Increase



Discussion

- More complete combustion** = less emissions, less unburned fuel & particulates & gasses.
- 35.3% reduction in hydrocarbons** = more complete combustion = less clogging of system filters (DPF, bypass filters, catalytic converter, spin-on filter).
- 6.76% reduction of CO** - confirms more complete combustion.
- 44.8% less particulate matter** - results in less abrasion & wear on engine components.
- 9.5% improvement in fuel economy** = more energy out-put with same volume of fuel.



ENGINE ARMOUR TECH

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The information on this test bulletin is based on data that is considered accurate. Engine Armour Technology does not assume responsibility for any misrepresentation or assumptions the reader may formulate.

For further information, please contact Engine Armour Tech