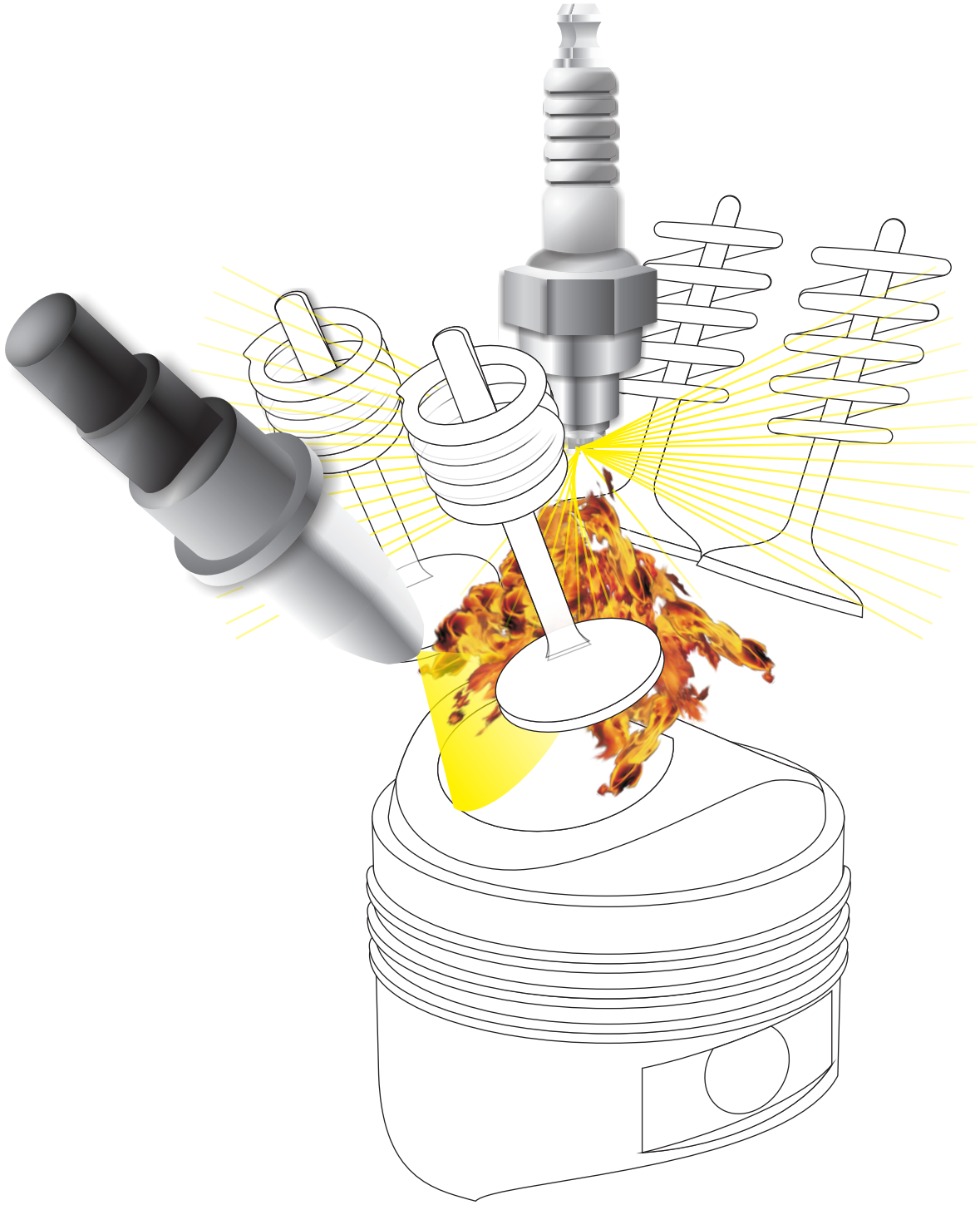
Telephone: +44 (0)1708 330500
Fax: +44 (0)1708 330504
Email: 333@silverhook.co.uk
Website: www.silverhook.co.uk

SILVER HOOK®

Silverhook
(Ware Motorama Ltd)
Units 17 / 18 Bates Road
Harold Wood, Romford

High Performance Petrol Additive Package

SGA03



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Introduction

Gasoline detergent additive package PolyEtherAmine (PEA) technology

Recommended treat rates
Total engine cleaner SGA03 ---} 50ltrs fuel
Regular use: SGA03 200ltrs ---} 500ltrs fuel

Performance

1) clean-up of carburettors, injectors and intake valves
2) clean-up of the intake system
3) clean-up of harmful combustion chamber deposits (CCD)
   i.e. protection against engine knock and carbon rap
4) can cure engines suffering from intake valve sticking
5) can cure engines suffering from exhaust valve sticking
6) prevents build-up of harmful spark plug electrode deposits
   i.e. protection against spark plug fouling
7) corrosion protection

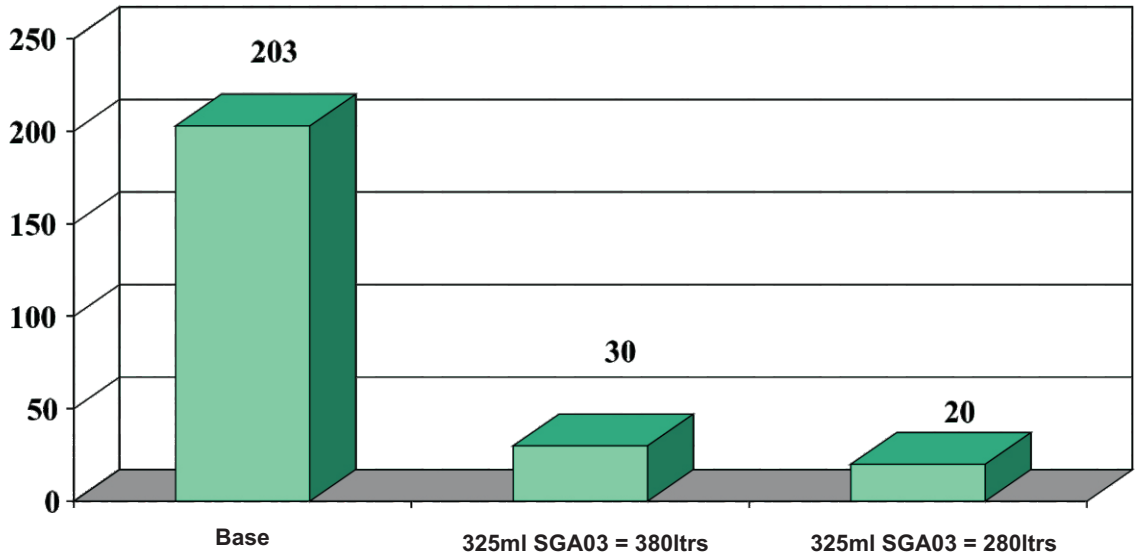
Claims

- Restores lost power and acceleration
- Smooths out rough idle, stumbling, stalling
- Eliminates tough starting
- Increases fuel economy
- Reduces emissions
- increases engine durability
- longer life of fuel system - corrosion protection

SGA03 Keep Clean Results

Detergency: IVD Keep-Clean

IVD weight (mg)



MB M102E: Base Fuel CEC RF-83-A-91/8

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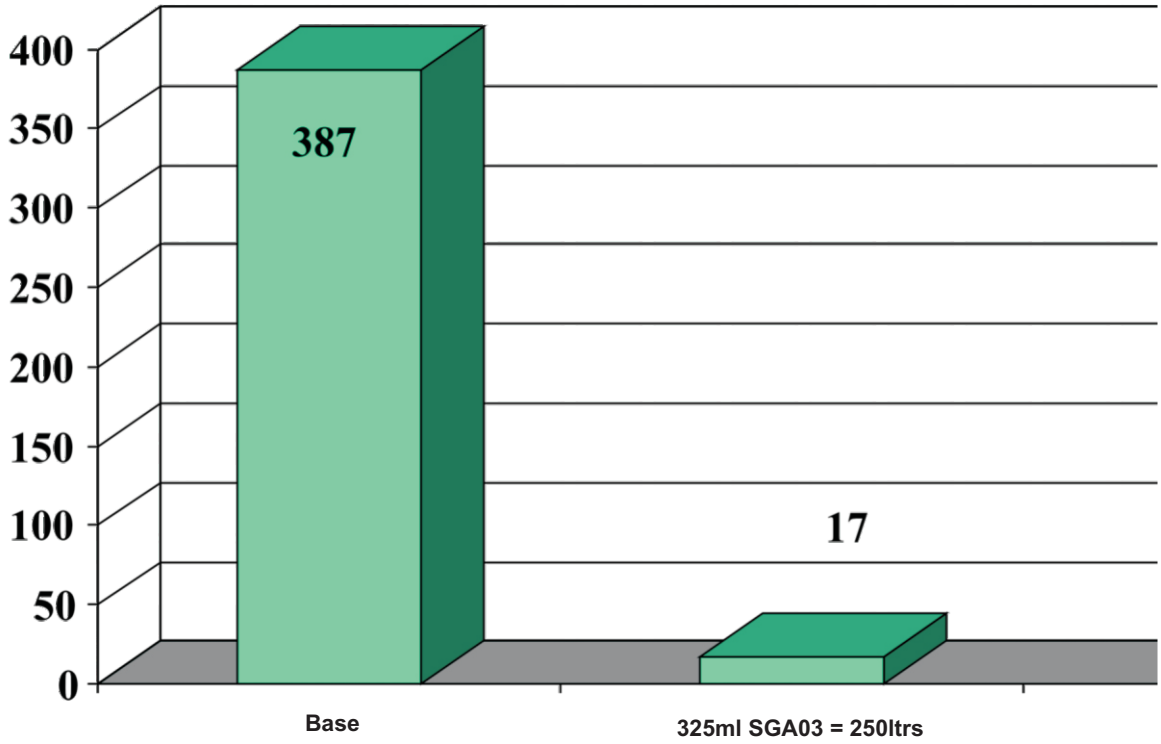
SGA03 Keep Clean Results

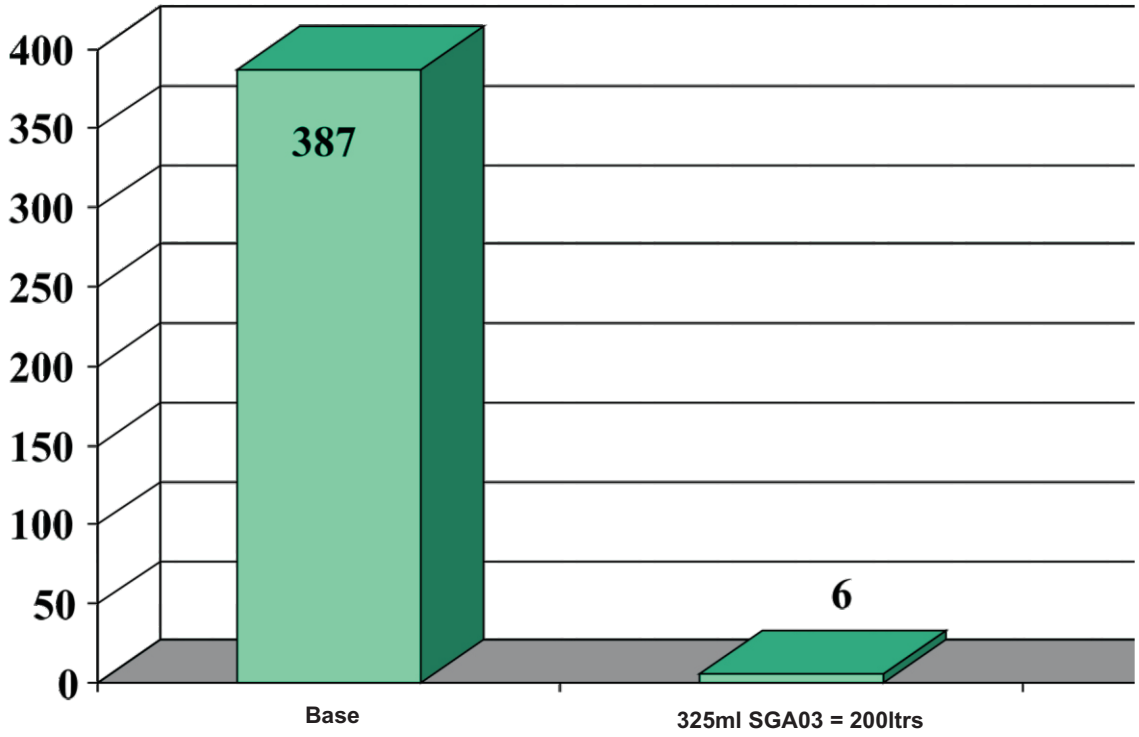
Detergency: IVD Keep-Clean

IVD weight (mg)



MB M102E: Unleaded base fuel European EN228 year 2000 specification

IVD weight (mg)



MB M102E: Unleaded base fuel European EN228 year 2000 specification

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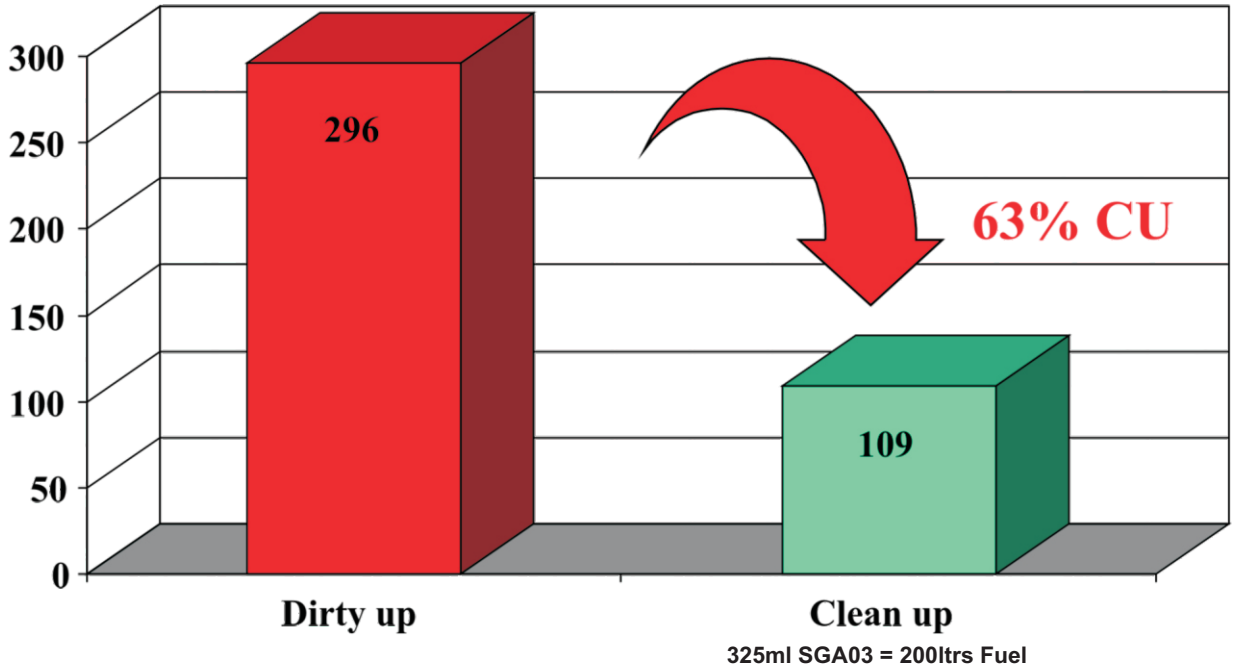
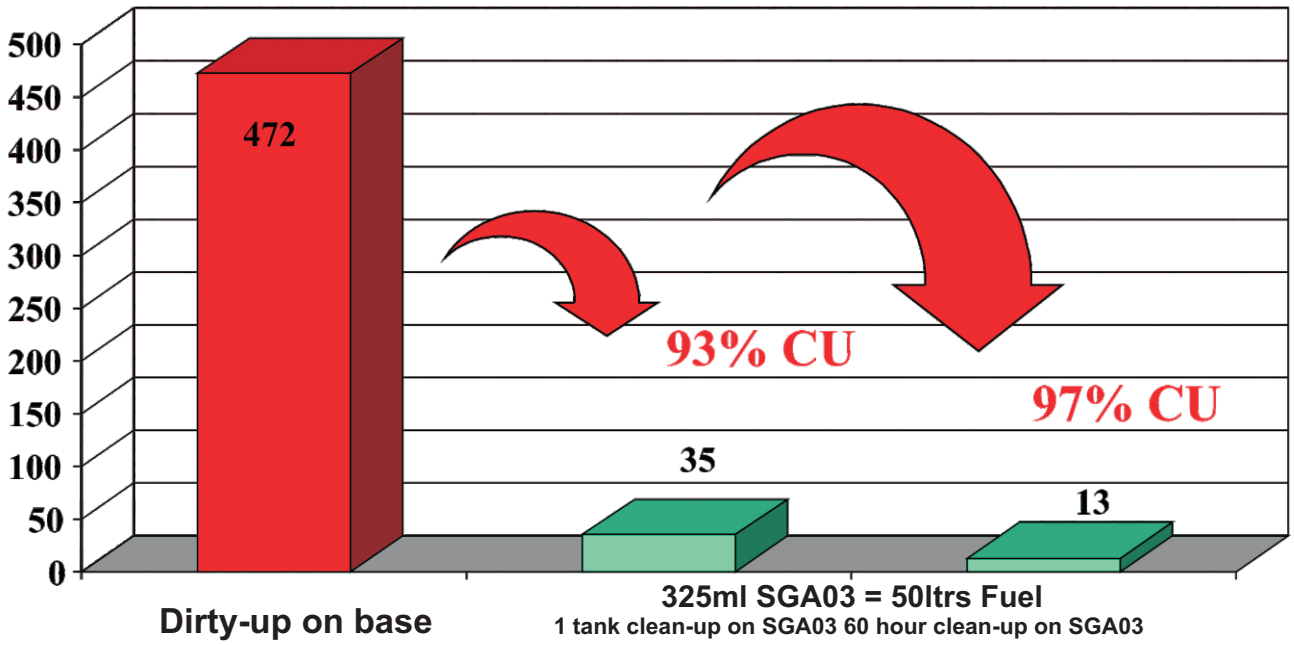
IVD weight (mg)



MB M102E: Dirty-up on French base fuel ; Clean-up on French base + SGA03

IVD weight (mg)



MB M102E: 60 h dirty-up; 15h (1 tank) & 60h clean-up on SGA03

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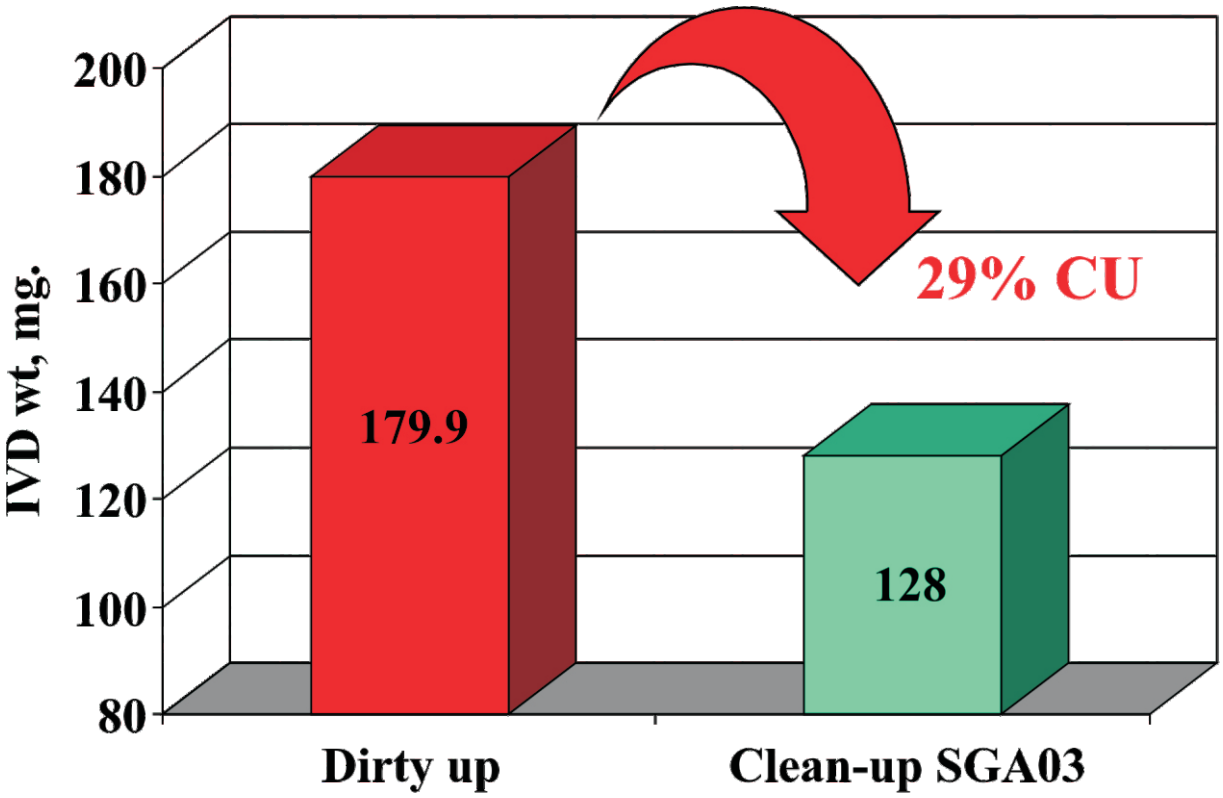
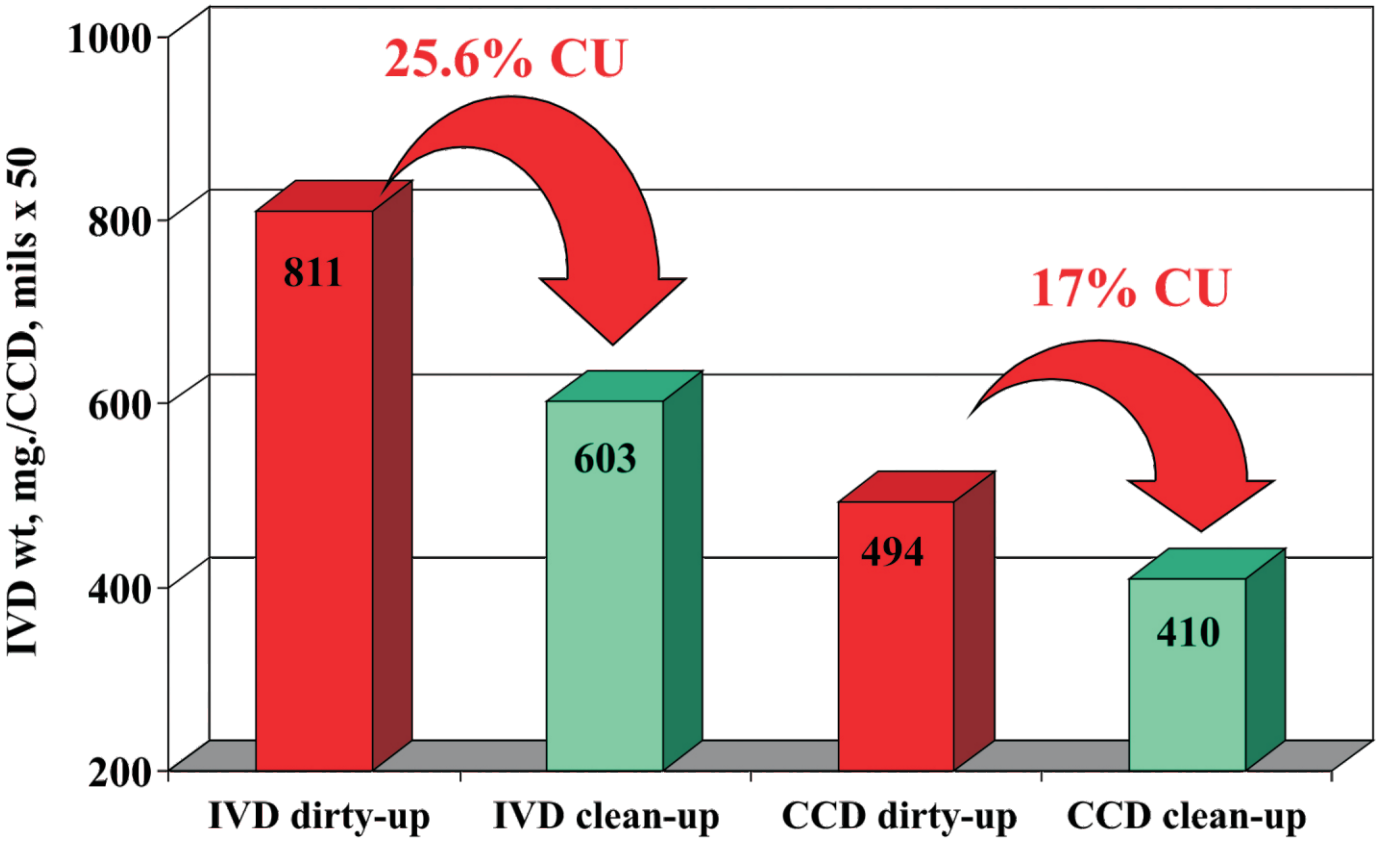


BMW 318i (modified ASTM D 5500): 3600 km dirty-up; 1 bottle (1500 km) clean-up

SGA03 Keep Clean Results

Detergency: IVD & CCD Keep-Clean



Ford 2. 3 liter dynamometer: 100 hr dirty-up; 1 bottle (65ltrs) clean-up

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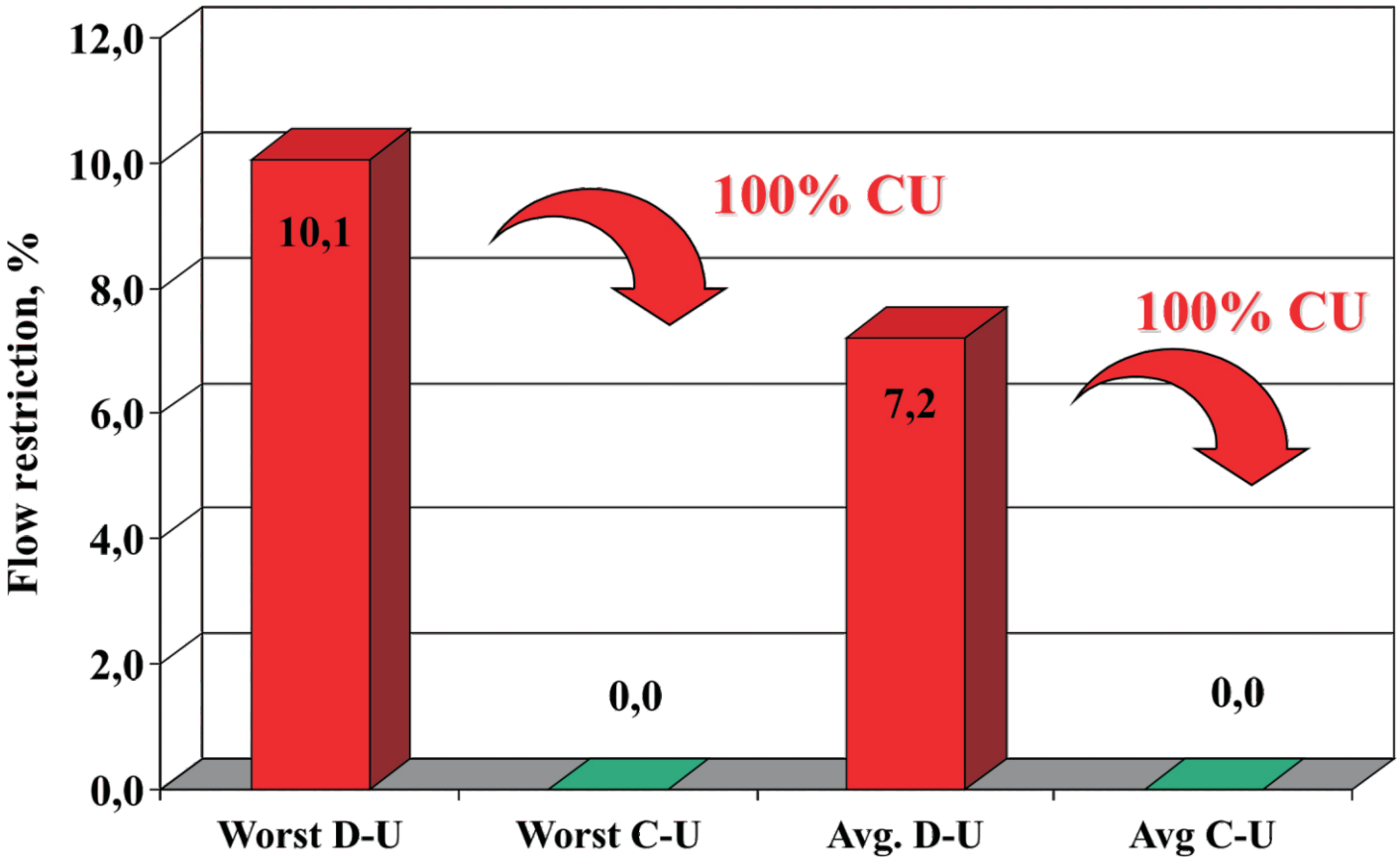
SGA03 Keep Clean Results

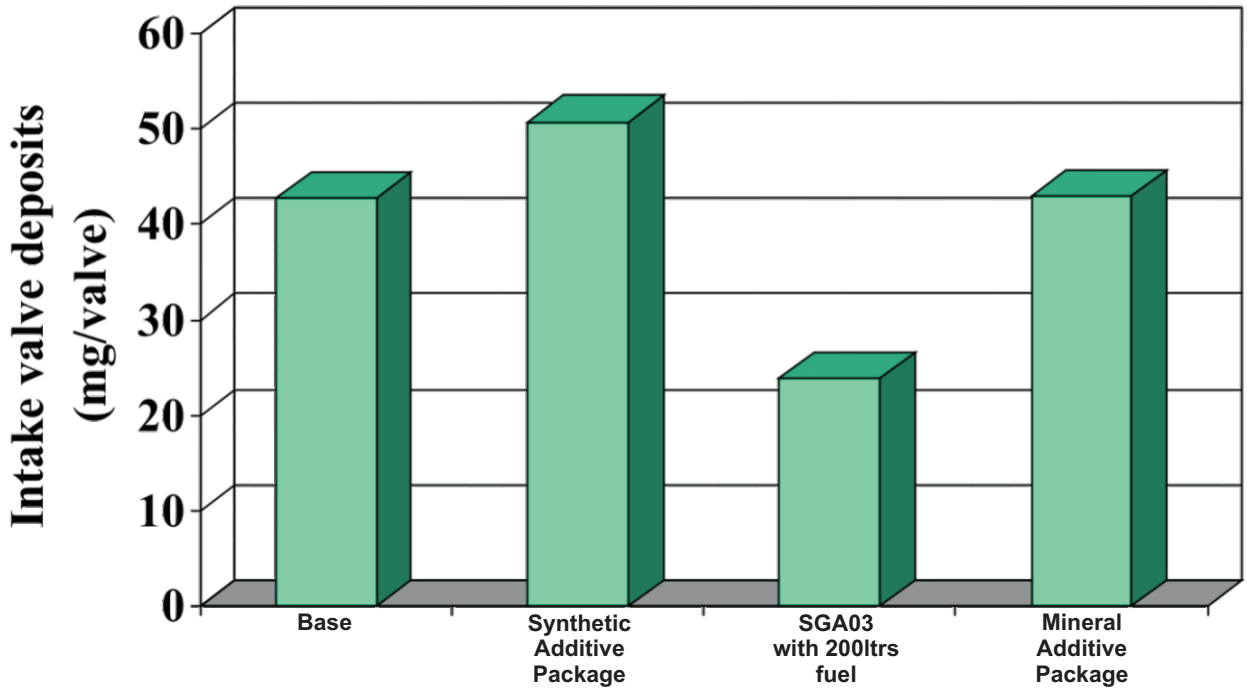
Detergency: Injector Deposits Keep-Clean



Chrysler 2.2 liter: 3500 mi dirty-up; 1 tank clean-up, SGA03 with 100ltrs fuel

SGA03

Detergency GDI: IVD in GDI Engine



Mitsubishi 1.8 GDI test; 100 hour stratified cycle (approx 4250 km); BeNeLux base fuel

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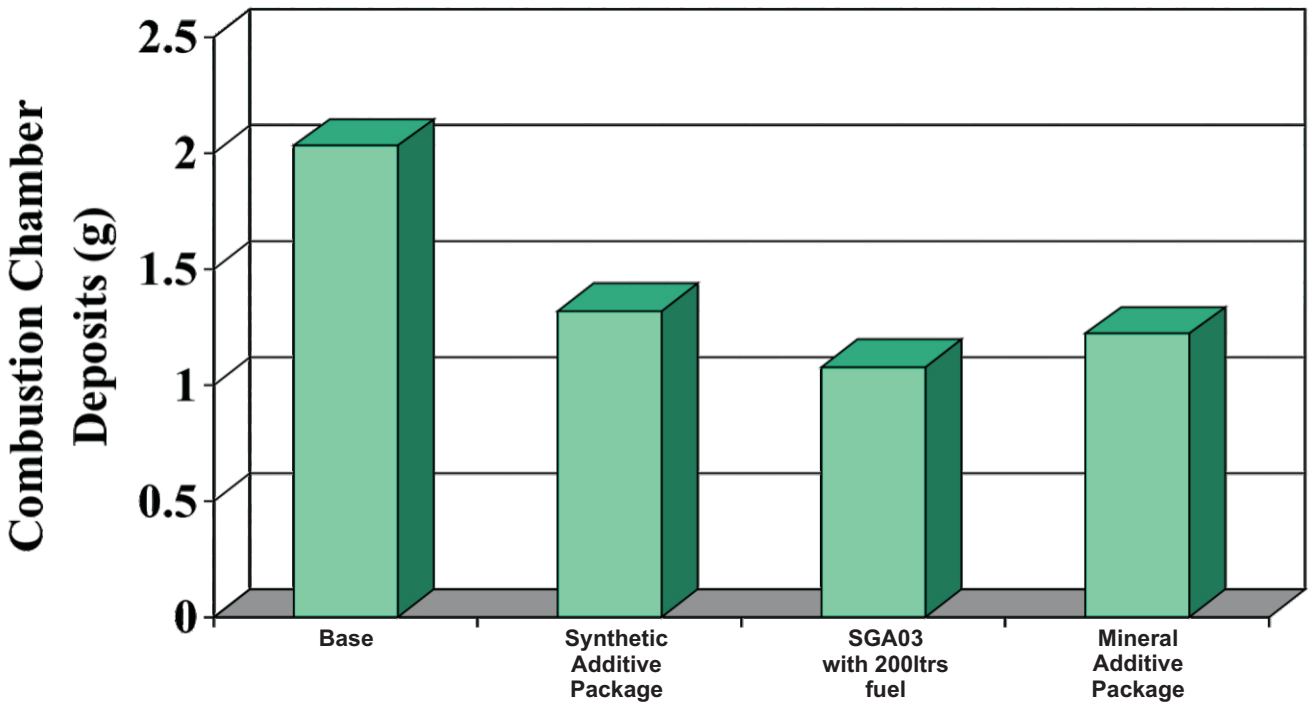
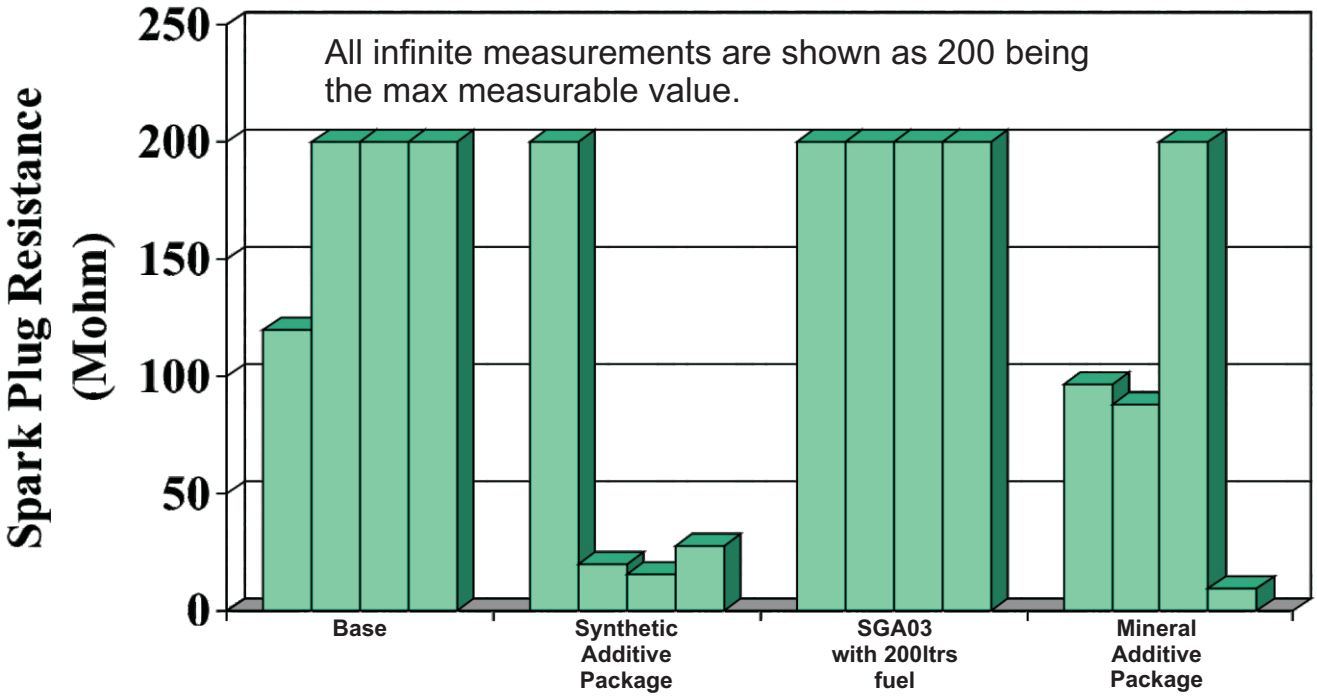
Detergency GDI: CCD in GDI Engine



SGA03

Detergency GDI: Spark Plug Fouling



Mitsubishi 1.8 GDI test; 100 hour stratified cycle (approx 4250 km); BeNeLux base fuel
The lower the spark plug resistance, the higher the fouling level of the spark plug

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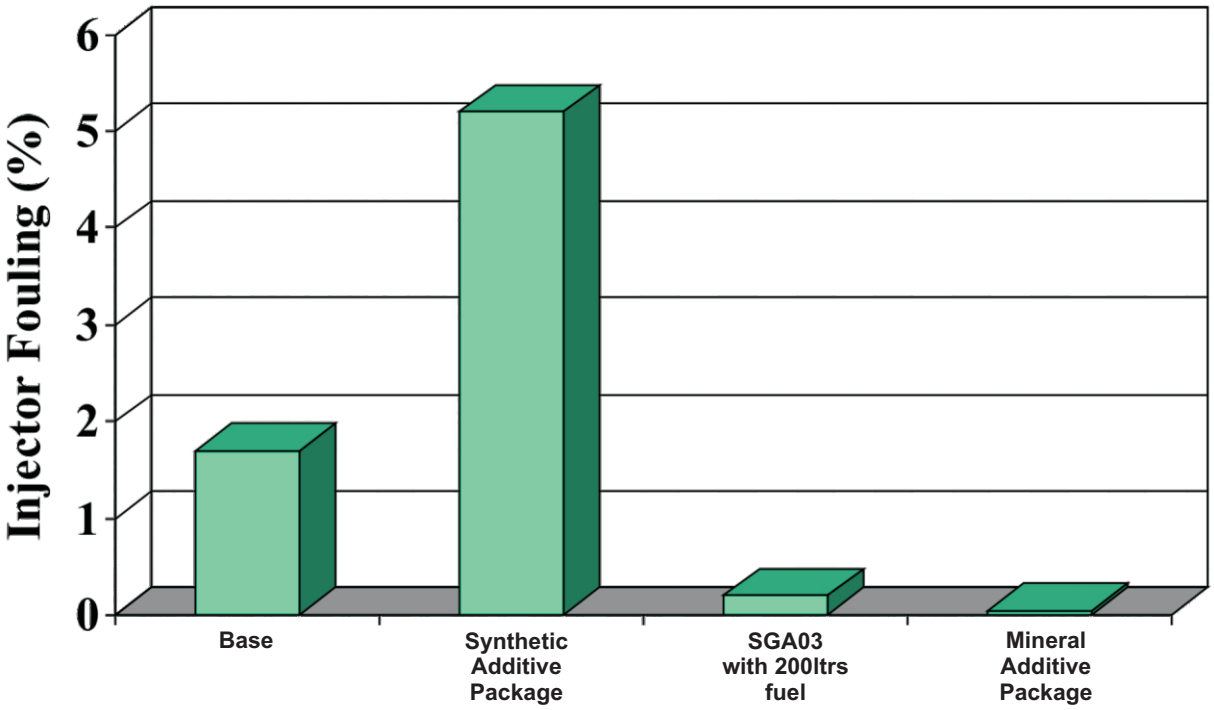
Detergency GDI: Injector Fouling



Mitsubishi 1.8 GDI test; 100 hour stratified cycle (approx 4250 km); BeNeLux base fuel

SGA03

Intake valve sticking fixed with SGA03

- **Intake valve sticking dirty-up**
  - Using bad reference fuel on Opel Vectra 1.8i
  - Fail at +1 °C

  Followed by:

- **SGA03 Fix**
  - Using bad reference fuel adding SGA03
  - Intake valve sticking free at -10 °C

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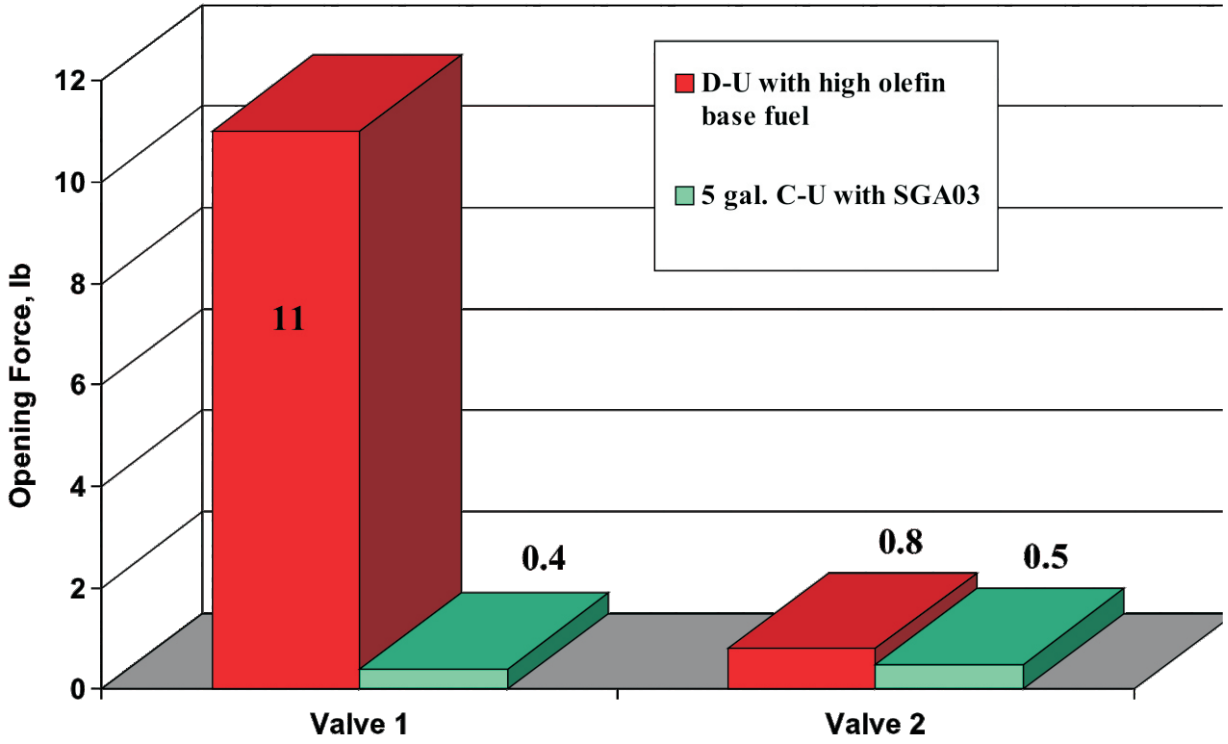
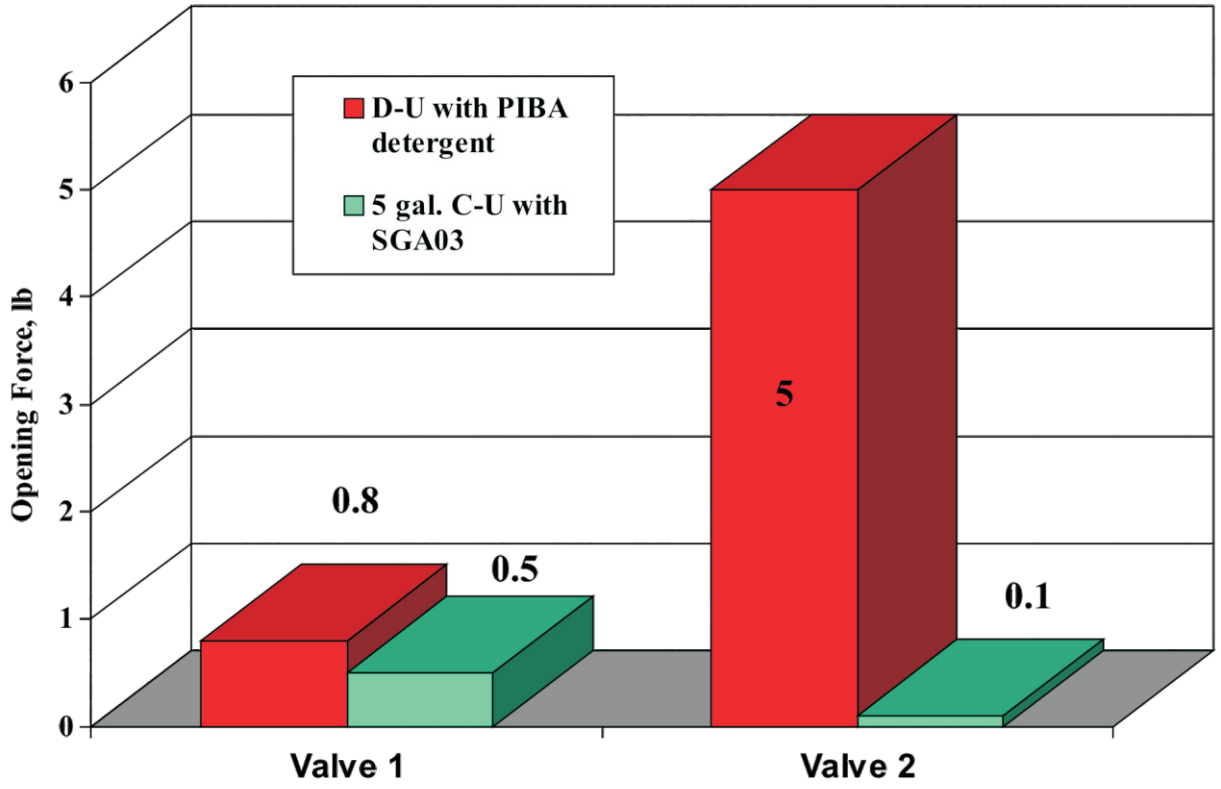
Intake valve sticking fix with SGA03



Honda Generator test (5 pounds is a fail)



Honda Generator test (5 pounds is a fail)

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SGA03

Anti-corrosion performance

Base Fuel	ASTM D665-A	ASTM D665-B
G1200	60% rust (D)	80% rust (E)
G1200 + SGA03	0% rust (A)	0% rust (A)
RF-83 + SGA03	0% rust (A)	0% rust (A)

Test at 38°C for 4 hours

SGA03

No Harm: Long drain Sludge and Varnish formation

Ford Sigma sludge test run on
Base 200ltrs + SGA03
After 400 hours or approx. 20.000 km severe taxi cycle:
Sludge rating : 9.77 merits.
(rating > 9 is perfectly clean)

Conclusion : SGA03 does not cause Sludge or Varnish

Data provided is for information purpose only. Silverhook Ltd is not responsible for the accuracy of the data shown.
Results obtained using petroleum fuel available in Europe. Results may vary when using fuel from country to country.

Continued