



Nottinghamshire County Council – Fleet Services



“We are using Engine Carbon Clean on all Council vehicles when they arrive for routine maintenance. We have received very positive comments after the Engine Carbon Clean has been carried out; smoother engine performance, better acceleration and fuel savings”.

Dave Shaw,
Nottinghamshire County
Council, Transport &
Travel Services

BACKGROUND

Like many councils across the UK, Nottinghamshire County Council (NCC) is constantly looking at ways to improve services yet reduce ongoing costs. This applies in particular to the several hundred vehicles they both lease and facilitate for other commercial business use throughout the year.

NCC use a substantial fleet of vehicles for everyday community services and furthermore, they also offer fleet management and vehicle maintenance, such as service and MOT testing, for other commercial businesses across the region.

One factor that sets them apart is they are able to offer the Engine Carbon Clean service on all vehicles and plant equipment regardless of engine size or type, as part of their annual maintenance schedule.

INITIAL TRIALLING

It is generally accepted that cleaner engines help maintain vehicle performance and MPG capability as well as contributing to prolonging a vehicle's lifecycle, factors which are vital to Fleet Services due to the cost both of fuel and replacement parts such as:

- ⊗ EGR valves
- ⊗ DPFs
- ⊗ Vanes
- ⊗ Turbos etc.

In order to test the likely benefits of Engine Carbon Clean to the fleet at Nottinghamshire County Council, an independent consultant was brought in to oversee initial trialling of the unit.

“The decision of needing to add additives and use super-fuels to keep the engine clean, or indeed to take-away the need for such additives by using the Engine Carbon Clean unit to service

Benefits include a fuel saving of £113 per vehicle plus further savings from the 11% improvement in MPG.

Independent Fleet and Transport Consultant



Nottinghamshire County Council

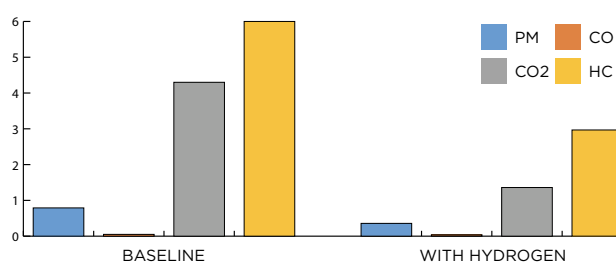
the engines was an underlying factor going into the testing of the product. Additives and super-fuels continually advertise the importance of clean engines; however, they do come at a premium cost that escalates on the amount of miles you travel.”

TESTING AND RESULTS

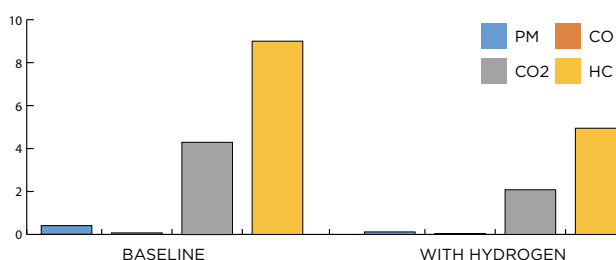
The Engine Carbon Clean service uses a compact, portable unit with easy set-up, which took around 30 minutes to complete its task on both a Vauxhall Corsa CDTi (Year 2007 : 113,565 miles) and a Ford Transit (Year 2010 : 34,725 miles).

“We were then able to compare the calibrated ‘before and after’ emissions, with the results being above expectations.”

Transit emissions pre/post service



Corsa emissions pre/post testing



MPG and Performance Testing

Vehicle	Reg No.	MPG Previous	MPG Post treatment	Performance Pre- treatment	Performance Post treatment
TRANSIT	FE10XCO	22	27	HUNTING ON ENGINE	SMOOTHED OUT ERRATIC RUNNING, QUIETER, SMOOTHER ACCELERATION, PERFORMANCE IMPROVING
CORSA	FP57HJJ	43	49	LUMPY, NOISY ENGINE	

Fuel Saving

Miles	MPG	Gallons	Litres	Super-fuel difference per gallon - 0.09ppl	Saving	Additives	Total
10,000	45	222	1010	0.09	91	22.5	113.5

“A saving estimated in the region of £113.50 over a 10,000 mile period is anticipated against a single hydrogen engine clean, however this saving does not take into account the additional 11% improvement in MPG performance we have experienced since the service took place. There is now one key element to evaluate, being the amount of time between the need to clean the engines again, but it is anticipated that based on 10,000 miles one clean would likely be sufficient.”



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