

Efficiency booster

New Zealand company Fuelstar produces a canister that can be added onto a truck's fuel line to improve combustion. The company guarantees increased fuel efficiency of 7% - and claims it's not uncommon for savings of 10-15% to be achieved – by releasing small particles of tin into the fuel line.



Collex achieved a 19 – 20% reduction in fuel use while testing the Fuelstar tin injection system.

Collex began using the system on trucks in Queensland nine months ago. Collex workshop manager Keith Sykes tested the technology on two trucks initially and achieved a 19-20% reduction in fuel usage over the first three months.

The canister is bolted onto the engine, where vibration and fuel flow release particles of around 0.3 microns. They travel in suspension to the combustion chamber where they increase oxidization, resulting in cleaner burning and lower engine temperatures.

Australian distributor, Tony Woods, says the system was initially designed to allow lead fuelled engines to run on unleaded fuels, but in the last two years it has been adapted for use on trucks. It is well suited to the waste industry because the stop-start nature of collection vehicles ensures the necessary vibrations and fuel flow.

Collex fitted out another 16 trucks based on the early results, but is yet to finalise the six month data. Sykes says if the savings continue the workshop will recommend the rest of the division's 40-truck fleet be fitted out.

The price of a unit depends on the size of the truck, but is generally between \$1,400-\$2,000 and will last for 500,000km or five years before replacement. Woods says on top of the fuel savings Fuelstar can also increase power, reduce emissions and decrease carbon build-up on spark plugs and oil.

More at www.fuelstar.com