FCC
FUEL CONDITIONER

The commercially astute green fuel conditioner with a positive environmental impact.

Brought to you by
ADDFUEL

By burning clean you burn green.


Creating a better future, today.
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Who are AddFuel?

ADDFUEL are a West Australian owned and operated company. We are making a difference to the world today, for future generations to enjoy.

ADDFUEL have taken ownership of FCC, with its 20+ years proven commercial and environmental benefits, and are re-establishing FCC to the world after seeing the positive commercial and environmental benefits it embraces.

FCC is truly an environmentally friendly fuel conditioner that offers multiple operational benefits for any industries fuel related needs. With two major operating benefits being reduced fuel usage and emissions reductions can you really over look FCC?

Introducing FCC to any businesses daily operation will instantly see FCC at work as well as knowing you are having a guaranteed constant influence on the environment around you everyday.

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What is FCC?

FCC is an environmentally friendly non-hazardous fuel conditioner.

FCC is a non-hydrocarbon, non-toxic, non-flammable formula.

FCC dissolves sticky contaminants (waxes & varnishes) in the fuel supply and removes carbon deposits from the engine.

FCC contains lubricity enhancers which are beneficial to all fuels but particularly low sulphur diesel and ethanol blended fuels.

FCC absorbs the water present in fuel, enabling it to pass through the combustion process in a pure combustible state.

FCC helps to negate the Sulphur found in fuel and non ULSD Diesel to reduce toxic emissions.

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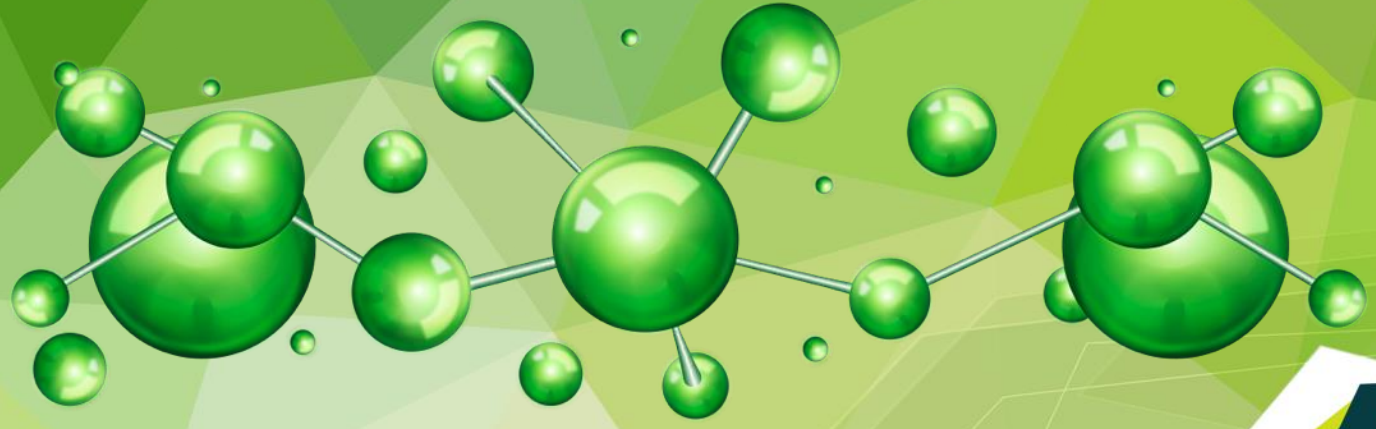
FCC physical make up

- Non toxic
- No hydrocarbons
- Bio degradable
- Non corrosive
- Friendly to fuel system
- pH neutral
- Environmentally friendly ingredients



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Where can I use FCC?

FCC works on all engines powered by either Diesel, Petrol or Bio-Fuels.

Generators & Power Plants

Plant & Equipment

Cars & Trucks

Boats & Ships

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Which environmentally friendly product can offer such a commercial result?

Reduce one of your companies biggest expenses

- Consistent financial savings from significantly better fuel efficiency
- Less maintenance downtime equals improved equipment efficiency and reduction in expenditure
- Ease of implementation
- Bundled costing for continued positive environmental impact

Repair, maintain and protect your engines from the inside out

- Increased lubricity levels to assist against wear
- Extended injector, oil and fuel filter changes
- Corrosion inhibitors for internal fuel delivery protection
- Rust inhibitors to protect fuel storage and fuel system components
- Increased engine lifespan

- **A Greener footprint for your company and Australia**
- Environmentally friendly
- Significantly reduces harmful carbon emissions
- Substantial reduction in soot emissions
- Significant reductions in Nitrous Oxides (NOx) emissions
- Safer working conditions for employees

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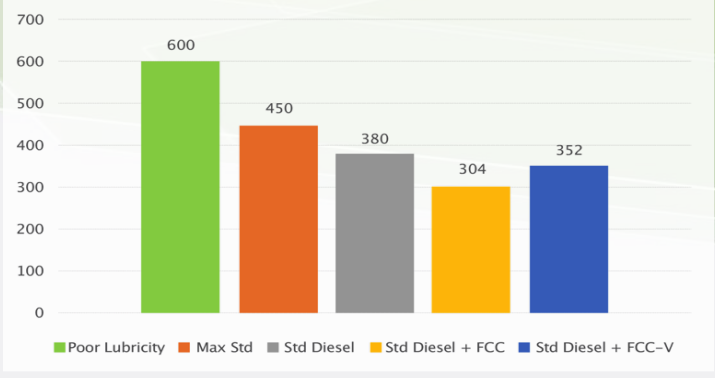
FCC third party testing and comments

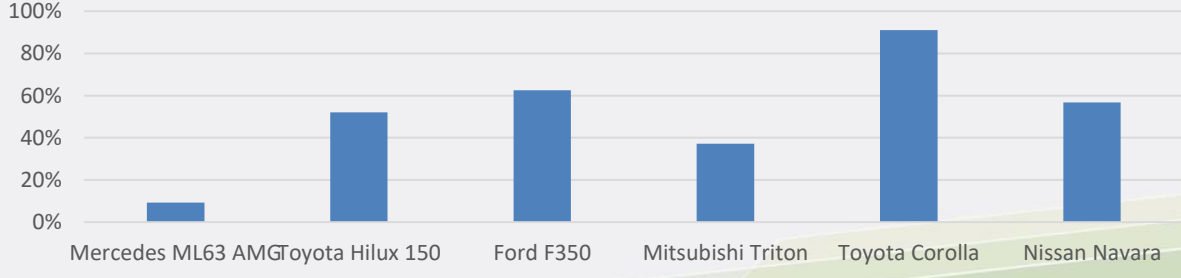
Third party Intertek reports.

Standard Diesel & FCC Additive Technical Analysis on Lubricity.

FCC / FCC-V improves lubricity by 7% –20%. This significant improvement prevents premature wear of equipment and allows the equipment to operate beyond its intended design life. This increase in lubricity directly improves engine's performance, reduces engine temperatures and minimises maintenance requirements.



Actual Carbon Monoxide (CO) gas emission reductions after FCC is applied to the fuel supply of each vehicle



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Typical results – Mining Industry

FCC Trial was conducted by BARRICK GOLD at the Darlot mine in Western Australia, 400 km north of Kalgoorlie. The trial took place over a 6 month period with data collated before, during and after the introduction of FCC to one of the mines DT10's fuel tanks.

During the trial Barrick personnel routinely analysed the vehicle's oil to record soot levels as well as analysing the Nitrous Oxide and Carbon Monoxide exhaust gases. The fuel consumption was routinely and methodically recorded throughout the trial process.

Findings

- Fuel consumption data collected showed a significant 5.3% reduction in fuel consumption.
- Nitrous Oxides (NOx), expelled through the exhaust showed a significant reduction of 40.5% during the FCC trial period.
- Carbon monoxide emissions reduced by 33% during the same trial period.
- Oil analyses taken during the trial period demonstrated soot levels reduced by 33%.

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Typical results – Logistics Industry

A Monitored Assessment of the benefits of FCC was conducted by CD Dodd scrape metal recyclers, out of there Perth base in Western Australia. The assessment took place over a 12 month period with data collated before and during the introduction of FCC into a 2014 SCANIA G480.

The data was monitored using Scania's own Management Portal System. The Portal in question is supplied and operated by SCANIA themselves and gives its user real time results on how the truck is operating from fuel consumption, emissions output, top and minimum speeds, idling durations, just to mention a few topics. .

Findings

- The data collected prior to introduction of FCC showed an average fuel consumption of 14 litres per hour.
- When FCC was added to the fuel supply it had an immediate effect with fuel consumption reducing to an average of 13.1 litres per hour.
- FCC lead to an average 6.2% reduction in fuel consumption over the length of the assessment.

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Typical results – Generator Engine

In the first quarter of 2018, AMA Marine Public Company, one of the leading companies in terms of market share for Palm Oil Transportation across South East Asia, began a trial of FCC Fuel Conditioner onboard the M.T. Salina.

The trial was conducted independently by the crew of the M.T. Salina, with data collected during the trial being provided to AddFuel on completion. FCC was applied to the tankers Generator Engine, a Yanmar 6NY16L-IN/310KW, which uses MGO bunker fuel. FCC was added to the Generators fuel tank every time it was refuelled. The data collected during the 6 week trial included, fuel usage, total kWh output, and amount of FCC applied at each refill. AMA Marine's head Engineer provided AddFuel with the previous 6 months fuel usage which formed the baseline data with which to compare against the results from the 6 week trial. All data collected was recorded on a spreadsheet for further review and analyses. The crew was also required to complete a separate sign-off sheet during each refuel.

Findings

- Fuel consumption data collected prior to FCC showed an average of 38.69 litres per 100kWh
- The introduction of FCC lowered this to 32.12 litres per 100kWh a huge **16.97% reduction** in fuel consumption
- Upon completion of the trial, FCC was removed from the fuel supply. Within 6 weeks the fuel consumption was back to 36.75 litres per 100kWh thus demonstrating the need for continual usage of FCC.

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Typical results – Power Station

FCC trial was conducted by PNG Power at the Moitaka power generation and distribution site in Port Moresby. The trial was designed to demonstrate that addressing PNG fuel quality and storage issues FCC could produce genuine benefits for PNG Power as well as address the needs for cost savings initiatives.

Findings

- Better efficient use of diesel fuel and reduced fuel costs.
- Smoother and more reliable power generation due to reduced down-time during trial period.
- Virtual elimination of unscheduled, fuel-related maintenance expenses.
- Average fuel efficiency went from 3.73Kw Hours per litre to 4.97Kw Hours per litre.
- FCC reduced PNG Power's fuel bill at Moitaka by 30% during the trial period.

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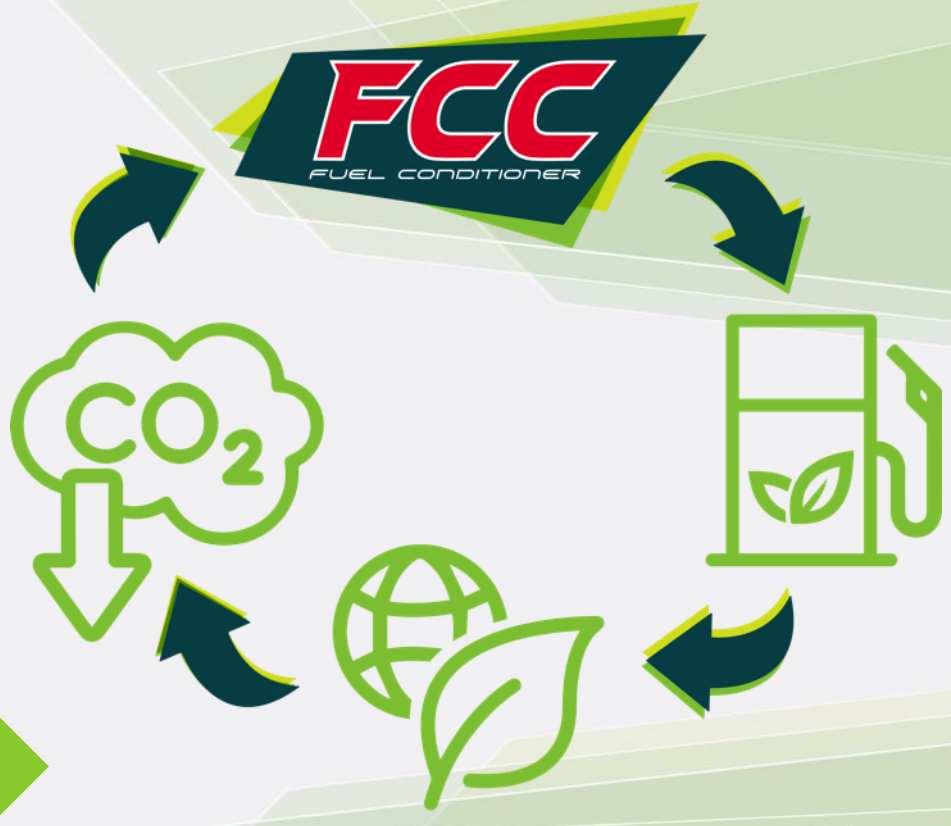
Sustainability

ADDFUEL are proud to offer their clients the opportunity to offset the Carbon produced from their fuel consumption and truly make a stand when it comes to protecting the environment.

This is your opportunity to initiate a simple yet effective proposal to make your companies sustainability statement actually mean something and become true leaders in the carbon neutral arrangement.

Don't hesitate to ask how AddFuel can implement this environmental benefit into your organization.



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By burning clean, you burn green.
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Current FCC markets

- Australia
- UK
- USA
- India
- China
- Southern Africa
- PNG
- SE Asia

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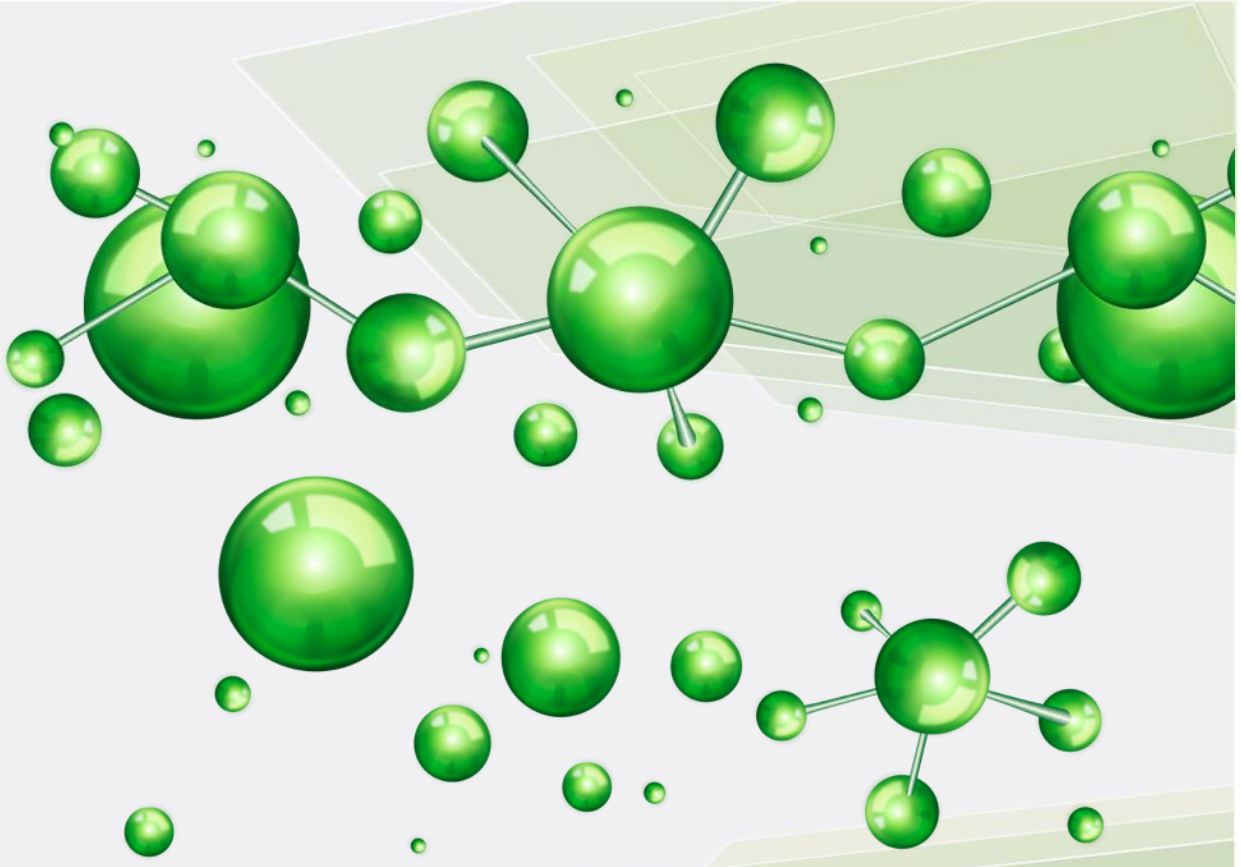

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