



## VOLUMETRIC TRUCK TEST PROVES VALUE OF FTC IN SERVICE

Fuel Technology Pty Ltd (FTPL) have been supplying a fuel combustion catalyst known as **FTC** to the mining industry, including a number of major mining contractors and mining houses, for approximately 16 years. Over this time **FTC** has been tested and shown to provide efficiency gains in the order of 6% to 8% in mobile mining equipment using engineering standard test methods in both laboratory and field tests.

In conjunction with two prominent mining contractors, FTPL has recently completed three field trials at Western Australian mine sites which provided conclusive evidence of reduced fuel consumption in their mobile mining fleets.

A summary of the three trials follows:

### TEST PROCEDURE

The SFC tests are conducted as follows:-

Flow transducers fitted with thermocouple probes are connected to the supply and return fuel lines. The transducers output signal is cabled to a Minitrol rate meter in the truck cab. The fuel temperature is also recorded in the truck cab by the test engineer. Distance sighting posts are erected at the start and finish of the haul and a surveyors wheel employed to accurately measure the haul distance.

The elapsed time of the start and finish of the haul is measured by a digital quartz crystal stop watch. The haul load is taken from the truck's load monitor. The data extracted in the field test is processed by computer and the statistical accuracy verified.

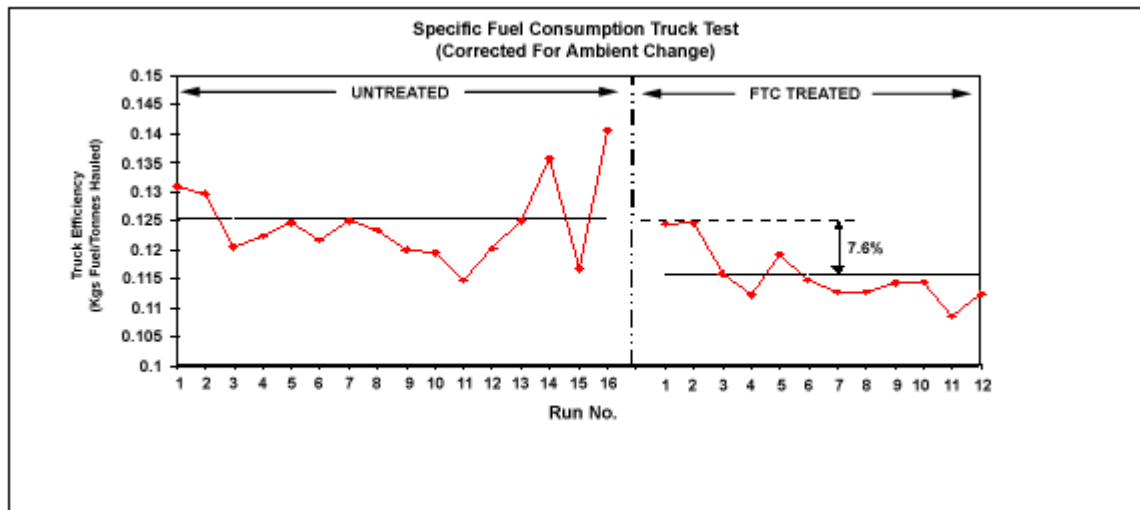
#### Study 1

#### Mobile Mining Contractor

- |            |   |  |
|------------|---|--|
| Operation  | - | Open pit copper operations   |
| Equipment  | - | Caterpillar 777C   |
| Evaluation | - | Controlled Specific Fuel Consumption tests conducted under normal operating regime. Fuel flow and temperature recording instruments installed for measuring mass of fuel consumed over |

a measured distance. Loads carried were measured by onboard "load monitor"

Results - **7.6%** fuel economy improvement recorded.



## Study 2

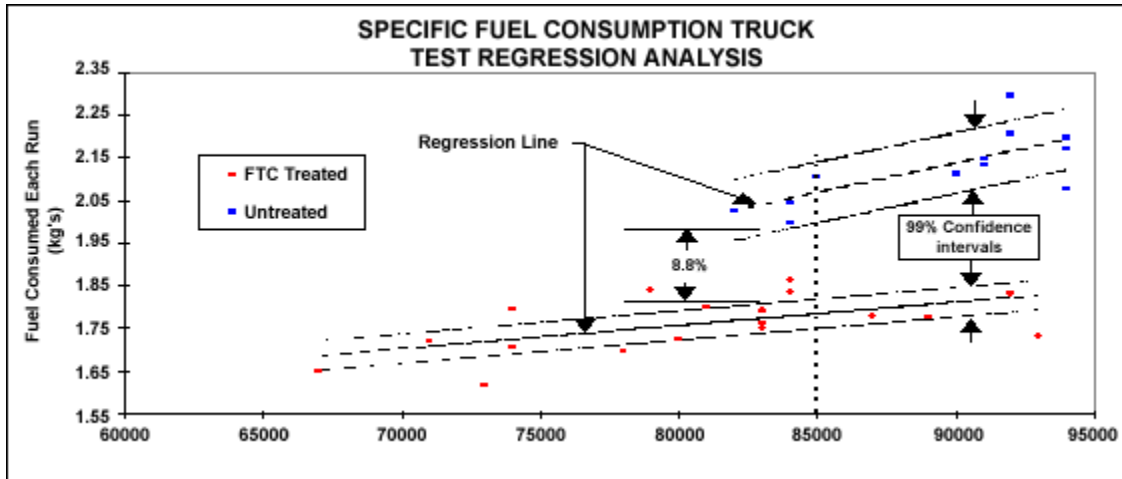
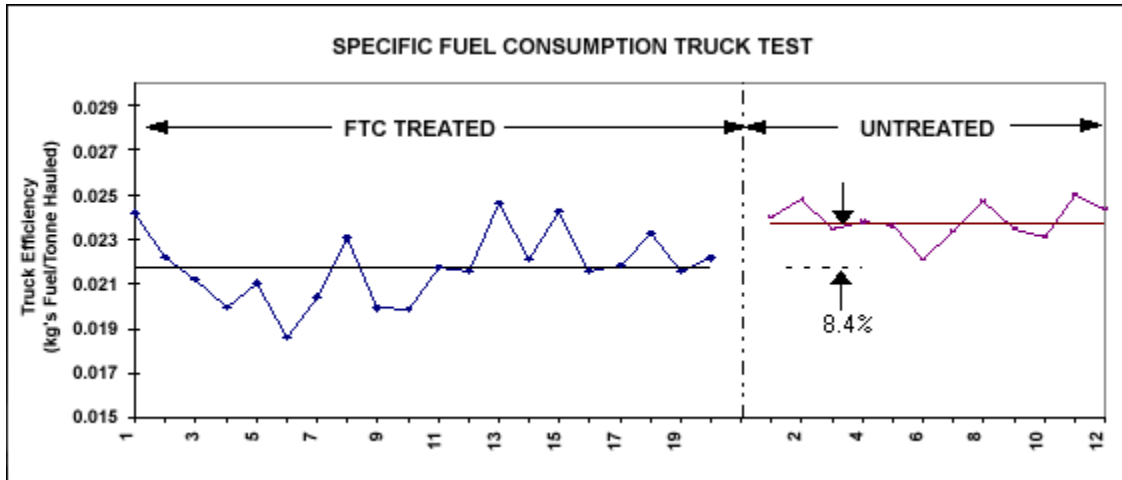
## Mobile Mining Contractor

Operation - Open pit gold operation

Equipment - Caterpillar 777C Dump Truck

Evaluation - Controlled Specific Fuel Consumption tests conducted under normal operating regime. Fuel flow and temperature recording instruments installed for measuring mass of fuel consumed over a measured distance. Loads carried were measured by onboard "load monitor"

Results - **8.4%** fuel economy improvement recorded.



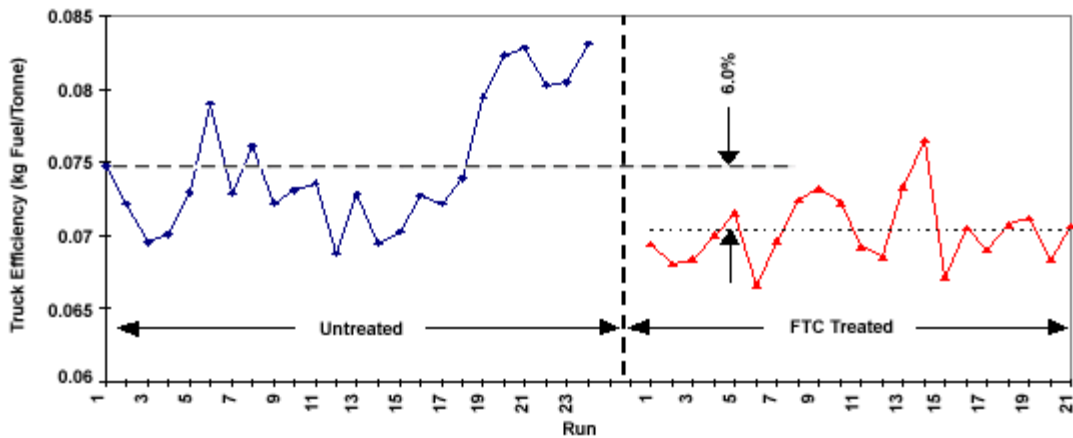
**Study 3**

**Mobile Mining Contractor**

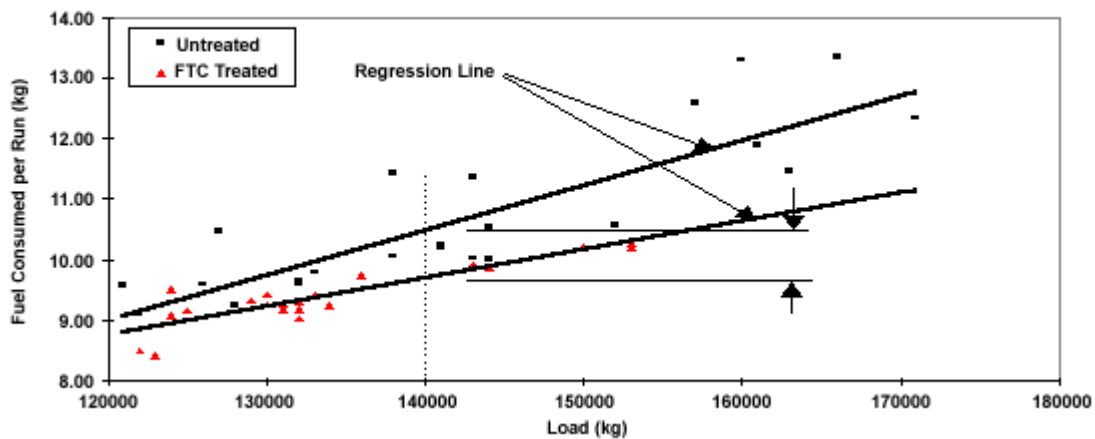
- Operation - Open pit gold operation
- Equipment - Caterpillar 785 Dump Truck
- Evaluation - Controlled Specific Fuel Consumption tests conducted under normal operating regime. Fuel flow and temperature recording instruments installed for measuring mass of fuel consumed over a measured distance. Loads carried were measured by onboard "load monitor"
- Results - **6.0%** fuel economy improvement recorded.

**RESULTS**

Graph 1 plots the truck's fuel efficiency over each test phase.



Graph 2 shows a direct comparison of fuel consumption rates at identical payloads employing regression analysis



## CONCLUSION

These three trials demonstrate conclusively that FTC provides measurable fuel efficiency improvements in mobile mining equipment.

FTPL engineers would welcome your no obligation enquiry to discuss how FTC can be demonstrated to assist in reducing fuel consumption in your mining fleet.

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