

PREMIUM FUEL ADDITIVES FOR FUEL DISTRIBUTORS





Fuel Additives and Engine Treatment Products

The ROX® Range of Fuel Additives brings all of Callington's extensive expertise together to create chemical solutions that meet the demanding requirements of fuel distributors.

The range has been formulated with the experience gained from over 40 years in the Petroleum Industry. Our range of chemicals have been specifically formulated to treat and prevent contaminants, improve stability, improve fuel quality, improve engine performance, reduce consumption and reduce emissions harmful to our environment.

Callington's long history in producing solutions for the aviation market enables us to provide fuel distributors with the most advanced and efficient fuel additives formulations at the highest standards.



Reduce Greenhouse emissions



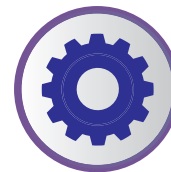
Protect the environment



Increase performance (octane/cetane boost)



Improve fuel economy



Reduce engine wear (corrosion, sludge)

Our ROX® Products Range:

- RoxDiesel® 9300C Cetane Improver
- RoxDiesel® Cetane Improver Concentrate
- RoxDiesel® Low Foam Cetane Concentrate
- RoxDiesel® 9300 Fuel Additive
- RoxDiesel® Biocide
- RoxDiesel® Stabiliser
- RoxDiesel® AntiFreeze
- ROX® Octane Boost
- ROX® Pro DPF Cleaner
- ROX® Petrol Improver





OUR ROX® 9300 RANGE

PRODUCT	ITEM CODE	DESCRIPTION
RoxDiesel® 9300C Cetane Improver	8759	Helps to reduce fuel consumption and provides a complete diesel treatment. It will turn regular diesel into a premium fuel.
RoxDiesel® Cetane Improver Concentrate	8762	With added Cetane improvers. Helps to reduce fuel consumption and provides a complete diesel treatment. It will turn regular diesel into a premium fuel.
RoxDiesel® Low Foam Cetane Concentrate	8752	Will allow for high flow fillings. Includes added Cetane improvers.



RoxDiesel® 9300C Cetane Improver

ITEM CODE	PACKAGING
8759/51	20L
8759/64	200L
8759/1000	1000L

RoxDiesel® 9300C Cetane Improver is a multi-functional ashless organic fuel additive. It provides a complete diesel treatment and is specially designed to give enhanced combustion through the addition of cetane improvers. RoxDiesel® 9300C Cetane Improver will turn your regular diesel into a premium fuel.

FEATURES & BENEFITS

- Increases Cetane rating of fuel
- Reduces particulate matter and NOx emissions
- Reduces noise, vibration and corrosion
- Reduces engine wear
- Enhanced fuel stability
- Delivers 5 % saving in fuel consumption and 10-15% reduction in AdBlue consumption
- Cleans combustion chamber & injector deposits

APPLICATION

The recommended treat rate is 1:500 for the initial treatment and 1:1000 to 1:2000 for subsequent treatment.

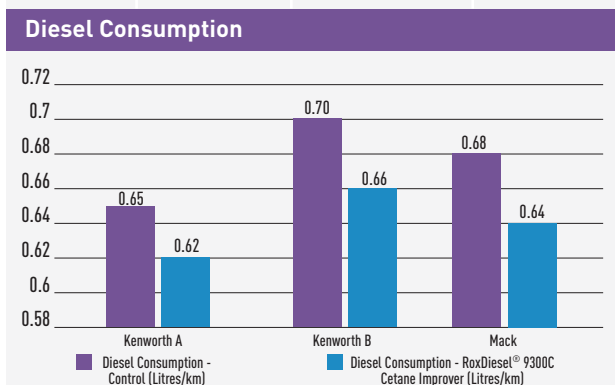


ROXDIESEL® 9300C CETANE IMPROVER EFFECTIVENESS TEST

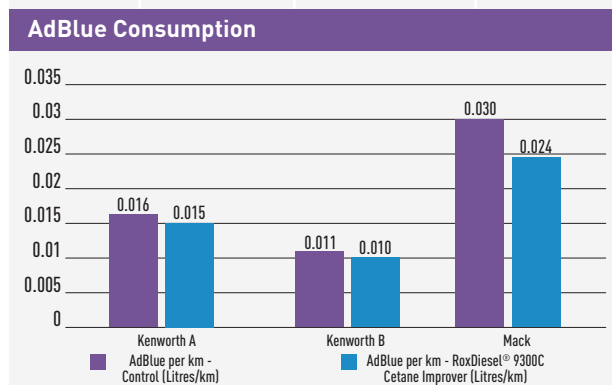
Scope: The scope of the trial was to measure the changes in fuel economy (expressed in fuel consumption) and Adblue consumption in a fleet of three trucks over the course of one month and a distance of just over 200,000 km.

Results: The results obtained at the end of the trial were then compared to existing data to provide a quantified figure for fuel and Adblue saving. The results are summarised below.

Diesel Consumption			
Identifier	Diesel Consumption - Control (Litres/km)	Diesel Consumption - RoxDiesel® Cetane Improver (Litres/km)	Fuel Savings
Kenworth A	0.65	0.62	4.8%
Kenworth B	0.70	0.66	5.9%
Mack	0.68	0.64	4.9%



AdBlue Consumption			
Identifier	AdBlue per km - Control (Litres/km)	AdBlue per km - RoxDiesel® Cetane Improver (Litres/km)	AdBlue Savings
Kenworth A	0.016	0.015	2.6%
Kenworth B	0.011	0.010	10.0%
Mack	0.030	0.024	18.5%





RoxDiesel® 9300 Fuel Additive

ITEM CODE	PACKAGING
8260/51	20L
8260/64	200L
8260/1000	1000L

RoxDiesel® 9300C Fuel Additive is a multi-functional diesel fuel maintenance product. It is specially designed to give an overall improvement on most aspects of fuel efficiency.

FEATURES & BENEFITS

- Injector cleanliness & powerful biocide
- Improved lubricity & fuel economy
- Improved exhaust emission
- Enhances fuel stability & demulsibility

APPLICATION

The recommended treat rate is 1:500 for the initial treatment and 1:1000 to 1:2000 for subsequent treatment.

- Add 1 part of Diesel Fuel Additive to 500 parts of Diesel for the first treatment. Mix well.
- For subsequent treatment add 1 part to 1000 parts of Diesel.



RoxDiesel® Low Foam Cetane Concentrate

ITEM CODE	PACKAGING
8752/64	200L
8752/1000	1000L

RoxDiesel® Low Foam Cetane Concentrate is a multi-functional organic fuel additive that, as well as enhancing combustion through the addition of cetane improvers, will allow for high flow filling because of its anti-foaming properties.

FEATURES & BENEFITS

- Anti-foam formula allows for high flow filling
- Increases Cetane number
- Provides more complete and cleaner combustion
- Cleans injectors
- Improved fuel atomisation
- Cleans intake & outlet valves
- Reduced noise
- Reduces fuel consumption
- Enhanced fuel stability in storage
- Inhibits corrosion & rust
- Biocidal action sludge dispersion

APPLICATION

The recommended treat rate is 1:2000 to 1:4000



RoxDiesel® Fuel Biocide

ITEM CODE	PACKAGING
8275/30	1L
8275/39	4L
8275/51	20L
8275/64	200L
8275/1000	1000L

RoxDiesel® Fuel Biocide is a potent biocide for killing and for preventing regrowth of most types of organisms that grow in fuels. Similarly, RoxDiesel Fuel Biocide acts as a fuel tank corrosion inhibitor and fuel lubricant.

RoxDiesel® Fuel Biocide is effective against most types of organisms found in fuel; it is particularly effective against *Cladosporium resinae* (a hydrocarbon utilizing fungus); as well as against bacteria, yeasts and other fungi.

Being totally organic, RoxDiesel® Fuel Biocide leaves no ash on combustion.

FEATURES & BENEFITS

- 100% organic, leaves no ash on combustion
- Also acts as a fuel tank corrosion inhibitor & fuel lubricant
- Kills a wide range of bacteria, fungi and mould

APPLICATION

The recommended treat rate is 1:500.



RoxDiesel® Stabiliser

ITEM CODE	PACKAGING
8274/64	200L
8274/1000	1000L

RoxDiesel® Stabiliser is a formulated blend of diesel stabilising actives that increases the shelf life of diesel in storage. It utilises antioxidant actives approved under the US military MIL-DTL 83133F standard and provides increases in performance and fuel economy in addition to its primary function as a fuel preservation additive.

In its capacity as a fuel stabiliser, it prevents and mitigates the main factors involved in the breakdown of diesel fuel, including moisture, bacterial growth and oxidation

FEATURES & BENEFITS

- Extends the shelf life diesel fuel for up to 12 months
- Increases the resilience of diesel fuel to oxidation
- Prevents bacterial contamination in diesel fuel
- Manages water contamination in diesel fuel
- Prevents corrosion in fuel systems

APPLICATION

The recommended treat rate is 1:1000.



RoxDiesel® AntiFreeze

ITEM CODE	PACKAGING
8250/42	5L
8250/51	20L
8250/64	200L
8250/1000	1000L

Issue: When diesel fuels are operating in temperatures below their Cloud Point (CP) paraffinic wax crystals form within the fuel. These wax crystals will continue to form and when temperature drops below the Cold Filter Plugging Point (CFPP) the fuel will no longer pass through the filter.

Solution: RoxDiesel® AntiFreeze modifies the size and shape of the wax crystals which extends the CFPP and PP temperature ranges. This will delay fuel line and filter blockages and in doing so, keep engines running.

TEST REPORTS	CLOUD POINT (ASTM D2500)	CFPP (IP309)	POUR POINT (ASTM D97)
Winter Diesel (Untreated)	-1°C	-2°C	-9°C
Winter Diesel + ROX 1:1000	-1°C	-4°C	<-27°C
Winter Diesel + ROX 1:500	-1°C	-8°C	<-27°C

FEATURES & BENEFITS

- Cold flow improver significantly lowers pour point and extends the temperature range over which a vehicle can operate (Cold Filter Plugging Point)
- Developed in conjunction with Australian Oil Refinery and used for over 30 years throughout the cold regions of Australia
- Suitable for all diesel fuelled road, rail and marine transports, heavy vehicles, mining, rural and agriculture equipment
- Its long life makes it the perfect partner for generous sets, pumps, static equipment and fuel tanks situated in cold remote and isolated locations

APPLICATION

It is important to add the RoxDiesel® AntiFreeze to the fuel when the temperature of the fuel is above its cloud point. A dosage rate of 1L RoxDiesel® AntiFreeze to 500L of MGO or diesel fuel is required for the coldest climates. A dosage of up to 1:1000 is acceptable in milder temperature ranges.



ROX[®] Octane Boost

ITEM CODE	PACKAGING
8273/64	200L
8273/1000	1000L

ROX[®] Octane Boost is a formulated blend of octane boosting compounds designed to raise the octane rating of petrol. In increasing the octane rating of petrol, a number of improvements to engine operation and fuel efficiency achieved.

FEATURES & BENEFITS

- Can raise the Research Octane Number (RON) of petrol from 91 to 95, or from 95 to 98
- Functional at low dose rates
- Increases engine power
- Reduces engine knocking
- Increases fuel economy
- Reduces greenhouse gas emission intensity in vehicles

APPLICATION

To increase the RON of base fuel from 91 to 95, dose 1L of ROX[®] Octane Boost for every 175L of petrol. To increase the RON of base fuel from 95 to 98, dose 1L of ROX[®] Octane Boost for every 175L of petrol.

Do not exceed a dose rate of 1L for every 175L of petrol.



ROX® Pro DPF Cleaner

ITEM CODE	PACKAGING
8295/300	300ml
8295/64	20L

ROX® Pro DPF Cleaner is a catalytic diesel fuel additive designed to regenerate Diesel Particulate Filters (DPFs) that have become obstructed by carbon deposits. It uses a combination of metal catalysts to restore the capacity of diesel particulate filters to reduce the costs of maintenance and replacement of the diesel particulate filter over the engine's lifetime.

FEATURES & BENEFITS

- Reduces maintenance cost of Diesel Particulate Filters in the form of longer lifetime and reduced cleaning costs
- Reduces particulate emissions
- Facilitates the combustion of soot that has obstructed a diesel particulate filter
- Can allow an engine to recover from "limp mode"

APPLICATION

ROX® Pro DPF Cleaner is suitable for all DPF's that have severe clogging problems. Do not use in any other machine. Do not add to diesel fuel tank.



ROX[®] Petrol Improver

ITEM CODE	PACKAGING
8269/51	20L
8269/64	200L

ROX[®] Petrol Improver is an ashless, organic polyetheramine detergent to control combustion chamber deposits with exceptional control of fuel injector, PFI, DIG and intake valve deposits.

FEATURES & BENEFITS

- Keeps carburettor, fuel injectors and intake valves clean
- Intake valve deposits clean up
- Combustion chamber deposits clean up
- Lower exhaust emissions
- Minimum combustion deposit
- Improved overall engine performance
- Improved fuel economy

APPLICATION

Callington recommends a dose rate of 1:1000 for top tier combustion chamber clean up performance. The minimum dosage is 1:10000. At the low dose rate of 100-200ppm (1:10000 - 1:5000) injectors will be cleaned up kept clean. At higher dose rates 500-1000ppm (1:2000 - 1:1000) all benefits will be achieved.



ALSO AVAILABLE

PRODUCT	ITEM CODE	PACKAGING
ROX® Care Degreaser <ul style="list-style-type: none"> • Quick break action provides easy removal of washdown 	8240/42 8240/51	5L 20L
RoxDiesel® Water in Fuel Emulsifier <ul style="list-style-type: none"> • The fuel treatment will remove and prevent bacteria and fungi growth 	8262/51 8262/64	20L 200L
RoxDiesel® Solvent Based Tank Cleaner <ul style="list-style-type: none"> • A low toxicity, biodegradable solvent-based emulsifier for the cleaning of MARPOL Annex II tank residues 	8249/51 8249/64	20L 200L
RoxDiesel® Lubricity Improver <ul style="list-style-type: none"> • Specifically formulated to improve the lubricity of diesel fuel 	8283/51 8283/64	20L 200L
RoxDiesel® Marine Fuel Pour Point Depressant <ul style="list-style-type: none"> • An ashless pour point depressant additive which improves operability for a range of MGO's and Diesel Fuel at low temperatures 	8272/51 8272/64 8272/1000	20L 200L 1000L





PRODUCT	ITEM CODE	PACKAGING
RoxDiesel® Asphaltene Dispersant <ul style="list-style-type: none"> A multi-functional additive providing powerful sludge dispersant, fuel blend and stabilization, anti-corrosive, lubricity and biocidal properties 	8764/51 8764/64	20L 200L
RoxDiesel® Biodiesel Antioxidant <ul style="list-style-type: none"> Formulated to improve the oxidative stability of biodiesels. Fuels that do not have sufficient oxidative stability produce free radicals which result in formation of colour and sediment deposits 	8251/51 8251/64	20L 200L
RoxDiesel® Organic Cetane Improver <ul style="list-style-type: none"> Cetane improver increases the cetane rating of diesel fuel to any statutory or desired level 	8190/51 8190/64	20L 200L
RoxDiesel® Heavy Fuel Oil Treatment <ul style="list-style-type: none"> Develops greater diesel engine and boiler combustion efficiency, reducing smoke and soot & reducing fuel consumption 	8278/51 8278/64	20L 200L



Callington

CALLINGTON OPERATES GLOBALLY ACROSS SIX CONTINENTS AND OUR SPECIALTY PRODUCTS AND SERVICES ARE PROVIDED TO CUSTOMERS IN OVER 150+ COUNTRIES.



Callington Canada
+1 (321)-972-2034
canada@callington.com



Callington Thailand
+66 2440 0686
thailand@callington.com



Callington UK Ltd
+33 1 64 11 33 22
UK@callington.com



Callington Inc
+1 (321)-972-2034
americas@callington.com



Callington India
+91 44 2828 2128
india@callington.com



Callington Singapore Pte Ltd
+65 6271 0091
singapore@callington.com



Callington Malaysia
+6 013 4532989
malaysia@callington.com



Callington Philippines
+65 6271 0091
philippines@callington.com



Callington Vietnam
+65 6271 0091
vietnam@callington.com



Callington Haven Pty Ltd
+61 2 9898 2700
australia@callington.com



Callington Hong Kong
+971 (0) 4 223 0133
hongkong@callington.com



Callington Middle East
+971 (0) 4 223 0133
uae@callington.com



PSA Paris
+33 1 64 11 33 22
europe@callington.com

callington.com