

## PRODUCT INFORMATION SHEET

### LUCAS – LEAD REPLACER PRODUCT NUMBER: 10016, 10065

Lucas Lead Replacer is an exclusively formulated fuel additive for petrol engines, which increases the octane number of any grade of petrol used.

#### Advantages

Petrol engine pinging causes severe damage to an engine. Prolonged pinging and detonation can cause loss of power, poor fuel economy, engine overheating, and worst of all, severe engine damage such as hammered bearings or melted pistons. One cannot always tell that a vehicle is suffering pinging or detonation. Inaudible detonation can be impossible to detect by ear. Dynamometer tests show that inaudible detonations will cause loss of horsepower and loss of ring sealing.

These problems became obvious when super leaded petrol had its octane rating reduced as a result of intense lobbying by community groups to have the lead levels lowered. Also these problems are not limited to leaded petrol. Many later model cars running on either unleaded or premium unleaded fuel suffer both audible and inaudible detonation.

Late model cars with knock sensors can retard their spark advance and inject additional petrol to suppress detonation, but this reduces power and increases fuel consumption.

Lucas Lead Replacer will overcome these problems with whatever grade of petrol is used – leaded super, half lead, unleaded or premium unleaded.

#### Benefits

Lucas Lead Replacer has been specifically formulated to provide the following benefits:

- Increases the Research Octane Number (RON)
- Environmentally friendly
- Reduces and prevents pinging of petrol engines
- Cushions valve seats
- Enhances combustion
- Improves engine performance and acceleration
- Lubricates entire fuel system
- Avoids mechanical damage caused by pinging
- Contains upper cylinder lubricants and injector cleaners
- Lowers fuel consumption
- Can be used in leaded or unleaded petrol
- Does not contain lead components or alcohol
- Safe for catalytic converters and oxygen sensors

#### Applications

Lucas Lead Replacer can be used in all grades of petrol – leaded and unleaded. Add to petrol tank at every tank filling, preferably before filling up. One 355ml bottle treats 160 litres of petrol.

Lucas Lead Replacer contains no alcohol or lead compounds, and will not harm catalytic converters or oxygen sensors.

#### Typical Characteristics

Appearance	Clear Green Liquid
Density @ 15deg C	0.814
Refractive Index @ 20deg C	1.0453
Flash Point (PMCC) deg C	44 (ASTM D 93)
Boiling Range (deg C)	160-180
Auto Ignition Temperature (deg C)	> 200