

BLI's Liquid Boron Engine Pre-Treatment (LB-EPT-1002A)



BLI's Liquid Boron Engine Pre-Treatment is specially formulated base oil to clean away sludge and other contaminants preparing engine surfaces for BLI's Liquid Boron Engine Treatment.

Product Description:

BLI's Liquid Boron Engine Pre-Treatment is a combination of base oils designed to be used in any engine oil for the purpose of preparing internal surfaces for the patented pending bonding process of **BLI's Liquid Boron Engine Treatment**. This important first step is recommended to be performed during a scheduled oil change.

Normal operating conditions of internal combustion engines generate contaminants:

- ◆ Sludge (gums and varnish)
- ◆ Corrosive acids
- ◆ Carbon residues
- ◆ Ash deposits
- ◆ Wear metals

These contaminants deteriorate the lubricant and can contribute to premature component failures. **Liquid Boron Engine Pre-Treatment** removes these contaminants from internal component surfaces by dissolving and cleaning the contaminants from the surfaces. This pre-treatment prepares the internal metal surfaces for the unique bonding of **Liquid Boron Engine Treatment**, ensuring a fast and effective bond.

Product Benefits:

BLI's Liquid Boron Engine Pre-Treatment is a quick and effective product specifically engineered to clean away internal engine contaminants including sludge, gums, varnish, carbon residue, ash deposits and captured wear metals. **Engine Pre-Treatment** will not harm engine components. It contains no chemical detergents and no corrosive agents. It is simply a blend of base oils which have a high natural detergency that effectively dissolve sludge, gums and varnish, cleaning away engine contaminants returning them to the oil circulation system where the contaminants are eventually filtered out before they can continue to harm engine components.

This engine pre-treatment not only prepares the engine surfaces for **Liquid Boron** bonding, but it returns internal engine surfaces to like new clean which improves engine efficiency.

How to Use:

Liquid Boron Engine Pre-Treatment can be used with any type and grade of engine oil. The most cost effective method for applying this product is to perform a pre-treatment at a regularly scheduled oil change.

Engine Pre-Treatment is added at a 10:1 ratio (Example: 10 quart oil capacity requires one (1) quart of **Engine Pre-Treatment**. 40 quart (10 gallons) oil capacity requires one (1) gallon (4 quarts) of **Engine Pre-Treatment**. Standard 5 quart automotive capacities require only 1 pint of **Engine Pre-Treatment**.)

At scheduled oil change, remove sufficient quantity of existing oil from crankcase to allow for required amount of **Engine Pre-Treatment** product to prevent overfill. Add recommended product amount. Start and run the engine at a higher idle, 900 to 1100 rpm, for 1 hour. This allows the product to be circulated throughout the engine dissolving and cleaning. During this cleaning cycle, monitor the oil pressure. As contaminants are dissolved and filtered there is the possibility for filter clogging. If oil pressure drops, stop the engine, replace the contaminated oil filter with a new filter and add enough fresh engine oil and **Engine Pre-Treatment** in a 50/50 mixture or just fresh engine oil to replace the lost fluid. Continue with the cleaning process.

Refer to **Technical Supplement-BLI's Liquid Boron Treatment Procedure for detailed engine treatment instructions and high mileage vehicle recommendations**.

At the end of the cleaning process, drain the oil and remove the oil filter. Recycle contaminated oil and filter per local regulations.

The engine is now cleaned and prepared for new oil and **BLI's Liquid Boron Engine Treatment (LB-ET-1001A)**.

Packaging:

Quarts, Custom and bulk packaging upon request.

Properties and Specifications:

Test Description	Typical Properties
Viscosity cSt @ 40°C	56
ISO Grade	46/68
API Gravity	0.88
Flash Point °F (°C)	618.8°F (326.0°C)
Color	Straw
Sulfur Content %	0
Ash Content %	0
D.O.T.	Not Regulated

Contact your Liquid Boron representative for more information on Boron Lubricants products or to place an order.