



Turbo Lube

Bardahl Turbo Lube is a motor oil enhancer designed specifically to reduce lubricant problems associated with turbocharged gasoline engines. **Bardahl Turbo Lube** contains a blend of high temperature detergents and the Bardahl 'Polar Plus' anti-friction/anti-wear/anti-oxidant formula in an SF/CD quality motor oil base. This combination of ingredients combats oil oxidation and cooking which result from the increased oil temperatures in turbocharged engines. **Bardahl Turbo Lube** also enhances the anti-friction and anti-wear properties of a motor oil.

The problem

The turbocharger derives its power from an engine's exhaust gas flow; a mixture of extremely hot gases which can exceed 800°C. (1500°F). Under normal driving conditions, the oil temperatures in the turbocharger are 1.5 to 2 times the temperature of the oil in the crankcase. This is not the worst however; after engine shutdown oil temperatures in the turbo can soar to 340°C. leading to coke (badly burned oil) deposits in the turbo. Even with the manufacturer recommended practice of idling an turbocharged engine for 20 to 30 seconds before shutdown oil temperatures still reach 200°C. (400°F). All this additional heat breaks down a motor oil, leading to varnish and gum formation throughout the engine, and shortens oil life by oxidizing it.

The action

Bardahl Turbo lube contains the proprietary ingredient 'Polar Plus' which acts to inhibit oil oxidation, extends oil life and reduces gum, varnish and coke deposits. 'Polar Plus' is a non-metallic blend of compounds and does not use zinc type anti-oxidants, which can increase deposits in turbocharged vehicles.

Bardahl Turbo Lube also contains a blend of detergents which have been proven effective in reducing deposits, especially high temperature deposits, in the industry standard Caterpillar IG2 high temperature deposit test. The results from the Caterpillar IG2 tests showed as much as a 100% improvement in elevated temperature protector with use of **Bardahl Turbo Lube** in an SF/CC motor oil. 'Polar Plus' is a proven anti-wear additive. Regular use will reduce wear on all engine parts and help maintain peak engine performance.

Directions for use

Add one bottle of **Turbo Lube** to every four quarts of motor oil each oil change; use two bottles if operating vehicle under high performance conditions. To maximize engine performance use **Bardahl Injector Cleaner** with **Turbo Lube**. Regular use of **Injector Cleaner** will keep your fuel system clean.

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