



ISO 9001 CERTIFIED

BAR'S LEAKS TECHNICAL BULLETIN

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Bar's Leaks Engine Repair

Part #: 1000

ENGINE REPAIR

The common element between all of the engine components is the oil. Oil is the life-blood of the engine and is pumped under pressure to all the moving parts. The two main parts needing oil for lubrication are the bearings and pistons. As the engine ages and gains more miles, the oil alone can't do the job. Internally, parts don't fit as tightly as they originally did which causes noise and loss of power. Bearings wear down, seals leak, lifters tick, blow-by passes around tired rings, and power is lost. When installed, Engine Repair helps to stop and prevent these problems and will also extend the useful life of your engine. Engine oils are generally used to reduce friction between moving parts. In addition to lubricating, motor oil must cool, provide corrosion protection and be a method of removing contaminants. As lubricants degrade, their properties change, leading to increased friction and wear. Over time the natural wear that occurs inside the engine causes reduced oil pressure, loss of compression (power loss), lower fuel mileage, oil consumption (leaks & smoking) and noise (knocking & ticking). Bar's Leaks Engine Repair contains a combination of the best performance additives to repair these most common oil-related problems. Engine Repair restores lost compression and power, reduces noise and oil consumption, while improving the performance of worn cylinders, rings, bearings, and seals. For most vehicles, this is your last chance before paying an expensive repair bill or replacing the vehicle. Engine Repair can be used to top off the existing oil when low, or add a bottle when changing the oil & filter. Compatible with ALL types of engine oils, including petroleum, synthetic and high-mileage formulas.



DIRECTIONS

- When Adding To Existing Engine Oil**
 Remove engine dipstick and check oil level. If oil is low, remove oil cap and install entire contents of the two chamber bottle. Do NOT overfill. Top off with manufacturers recommended engine oil as needed. Reinstall dipstick and oil cap. Drive/idle engine for 10-15 minutes. Depending on the engine problem, results will either be immediate or noticeable within two (2) days or 100 miles of driving. In engines with seriously damaged components, a second treatment may be required. In this case, it is suggested that the oil and filter be changed, and a second application of Engine Repair be added.
- When Changing Oil**
 If using Engine Repair when changing oil, add entire contents of bottle after filter is changed. Then refill with manufacturer's recommended oil to proper level. Drive vehicle and recheck oil level.

Part Number: 1000
 UPC Item: 0 46087 01000 6
 UPC Case: 1 00 46087 01000 3
 Bottle Size: 16 fl. oz. (473ml)
 Bottle Dimensions: 3.6 x 1.8 x 8.4
 Bottle Cube: 54
 Case Pack: 4 bottles per case
 Case Size: 7.4 x 3.9 x 8.9
 Case Cube: 257
 Case Weight: 4.53 pounds
 Pallet: TI 60 HI 5 Total 300
 Pallet Height: 49 inches

DOSAGE

1 bottle treats 4 to 6 quarts of oil

MOST COMMON ENGINE PROBLEMS	THE SOLUTION, BAR'S LEAKS ENGINE REPAIR
<p>LOSS OF POWER</p> <ul style="list-style-type: none"> ● Low Compression ● Increased Friction ● Dirty Internal Parts <p>NOISE</p> <ul style="list-style-type: none"> ● Knocking ● Ticking ● Low Oil Pressure <p>OIL CONSUMPTION</p> <ul style="list-style-type: none"> ● Burning Oil ● Smoking ● Leaks 	<p>RESTORES LOST POWER</p> <ul style="list-style-type: none"> ● Increases Oil Pressure ● Reduces Friction ● Helps Clean Internal Parts <p>QUIETS NOISE</p> <ul style="list-style-type: none"> ● Quiets Knocking ● Stops Ticking ● Raises Oil Pressure <p>REDUCES OIL CONSUMPTION</p> <ul style="list-style-type: none"> ● Reduces Oil Burning ● Eliminates Smoking ● Stops Leaks

INGREDIENTS

Chamber A Contains

- **Premium Semi-Synthetic Base Stock**
Synthetic oil and synthetic ester
- **Performance Additives**
Resist oil breakdown
- **Extreme Pressure Agents**
Help protect moving parts
- **Friction Modifiers**
Reduce friction
- **Detergents**
Clean, keep sludge suspended
- **Seal Conditioners**
Stop and prevent leaks caused by seal aging
- **Tachifiers**
Lubricate, enhance viscosity, and improve stability

Chamber B Contains

- **Synthetic Blend**
- **Anti-Wear Preventative**
Prevents wear on metal surfaces
- **Viscosity Improver**
Restore viscosity, stop blow-by, increase compression, and reduce engine noise

WHAT IS AN ENGINE?

There are two basic types of engines:

Gasoline Engine – most cars' & light duty trucks – The most popular engine runs on a mixture of gasoline and air. The air & fuel is compressed (squeezed) and then ignited by a spark to move the piston, which in turn allows the vehicle to move.

Diesel Fuel Engine – some cars' & most heavy duty trucks – The second most popular engine runs on a mixture of diesel fuel and air. Instead of spark, it uses the high temperature caused by extreme compression of the air & fuel mixture to move the piston.

Works on ALL Engines

Gasoline, Diesel, Hybrid and Turbo

Engine Components

Automotive engines are a combination of mechanical, hydraulic and electric parts.

Mechanical

Many mechanical parts are required to operate an engine. Some of the more important parts are the oil pump, crankshaft, bearings, seals, piston rings, lifters and valves.

Hydraulic

The hydraulic system uses the oil pump to create pressure which lubricates internal engine parts and helps to operate the lifters.

Electrical

The most common electrical parts include the spark plugs, fuel injectors, computer and many sensors.