BAR'S LEAKS® TECHNICAL BULLETIN

Tech Bulletin #: TB-1816	Part Number: 1816
Date Issued: November 19, 2019	Date Revised: December 11, 2019
Bar's Leaks® Gear Repair™	Size: 16.9 fl. oz. (500 mL)

Gear Repair

Bar's Leaks Gear Repair is a treatment additive for use with automotive, heavy duty, agricultural, marine and industrial gear oils. Designed to mix with all synthetic and conventional petroleum GL-4, GL-5, MT-1 gear oil / lube grades including 75W-90, 80W-90, 75W-140, 85W-140 and all others.

Extends system life by stopping leaks, reducing noise and improving gear performance. Superior anti-wear, anti-foam and anti-corrosion protection.

Works in all manual gearboxes, differentials, open & posi axles and more. Stops pinion, axle, output shaft and other seal leaks. Reduces grinding, whining, clunking and protects gears.

- **Seal Conditioner** stops current and prevents future leaks by protecting and reconditioning seals.
- **Extreme Pressure EP / Anti-wear AW Agents** provide excellent metal-to-metal wear protection reducing noise and gear temperatures. These Sulfur, Nitrogen and Phosphorus additives meet the requirements of API GL-4 and GL-5 specifications.
- **Friction Modifier** supplements EP / AW additives to help reduce noise and wear. This helps shifting in a manual transmission and also stops chatter in limited slip posi traction axles.
- **Performance Additive Booster** including tackifier and highly sheer stable multigrade viscosity modifiers work to keep oil on the gears and bearings where it can better lubricate, especially at higher temperatures. Pour Point Depressant allows product to flow even at low temps.

These additives stop & seal oil leaks and reduce noise. Gear Repair renews worn oil and restores older & high mileage gear performance. Works and safe to use on differential axles (limited slip, posi, open, electric), gears (hypoid, spider, worm, rack), transfer case (AWD, 4WD, gear oil, ATF), manual standard transmission (gear oil, engine oil, ATF), hubs, marine and much more. Helps with small leaks (if you need to add oil 1x per month), medium leaks (If you need to add oil 1x per week), and other oil related problems.

Differential - Limited Slip, Posi, Open and Electric	✓
Gears - Hypoid, Spider, Worm and Rack	✓
Transfer Case - Gear Oil and ATF Fluid	✓
Manual Transmission - Gear/Engine Oil and ATF Fluid	✓
Hubs - Trailer Hub Oil Bath	✓
Marine - Lower Drive Unit and Stern Drive	✓
Noise - Clunking, Gear and Bearing Whine	✓
Leaks - Seal, O-ring and Gasket Leaks	✓

INSTRUCTIONS

Add 5 to 6 ounces per quart of system capacity. Do not overfill. One bottle treats up to 3 quarts of gear oil. Can be added to top-off existing low fluid level, or when changing oil. Results will be immediate, or noticeable within 100 miles, or 2 days of driving. If leaks or noise continues, second application may be required or mechanical attention is needed.

BAR'S LEAKS® TECHNICAL BULLETIN (CONTINUED)

Gear Repair

Safe To Use On:

Agricultural and Farm
Automotive
Construction Equipment
Factories
Forestry
Industrial Systems
Machine Shops
Marine
Mining
Power Sports
Trucking and Heavy Duty
Waste Management

Works On:

ATV, UTV
Boats
Cars
Dump Trucks
Earth Mover
Lawn Equipment
Machinery
Motorcycle
Race Cars
Tractors
Trailers
Trucks

Repairs:

Front or Rear Axle
Gear Box / Case
Gear Reduction Units
Hubs
Lower Drive Unit
Manual Transmission
O-ring Boss Hose Fittings
Power Take Off PTO
Seals and O-rings
Transfer Case
Worm Gears
Other Gear Systems

TEST	TEST METHOD	TYPICAL PROPERTIES
Gravity, API	ASTM D4052	24.3
LB/GAL		7.573
Viscosity, cSt. @ 40°C	ASTM D445	344 cSt
Viscosity, cSt. @ 100°C	ASTM D445	29.6 cSt
Viscosity Index	ASTM D445	118
Flash Point COC	ASTM D92	229 °C (445°F)
Pour Point	ASTM D97	-27 °C (-17°F)
Color	ASTM D1500	L8.0
Sulfur	ASTM D6481	1.4
Phosphorus	ASTM D6481	0.2
Four Ball Wear Test Modified (80W-90 Gear Oil untreated) Temp 75°C Speed 1200RPM Time 60 min Load 40 kgf	ASTM D4172M	0.855 mm
Four Ball Wear Test Modified (80W-90 Gear Oil w/Gear Repair) Temp 75°C Speed 1200RPM Time 60 min Load 40 kgf	ASTM D4172M	0.478 mm