

# Customer Testimonial



## Duolec® Vari-Purpose Gear Lubricant (1604)

**Chris Unsworth, Lubrication Engineers NZ Ltd**

**1994 BMW 318 (manual transmission)**

- Prevented car's gearbox from jumping out of first gear after takeoff
- Saved \$1,000 in repair costs and avoided downtime
- Eliminated tension between husband and wife over car's ongoing mechanical problem

### Application

This 1994 BMW 318i is a personal car driven for five years by the wife of by Chris Unsworth, LE lubrication consultant. During three of those years, she was travelling long distance on open roads. Currently, the car is being used as a child taxi within the local area.

### Challenge

During the past three years, the gearbox has been intermittently jumping out of first gear when taking off, which was especially worrisome at major intersections. This usually happened when the vehicle was cold, but gradually got worse and happened more often.

Two gearbox specialists said the probable cause was a bent selector fork. The repair was estimated to cost more than \$1,000 and would require the car to be unavailable for a period of time.

### LE Solution

Instead of paying the \$1,000 in repair costs and losing the use of the vehicle during the repair time, we decided instead to try replacing the gearbox oil (2.5 litres) with LE's Duolec® Vari-Purpose Gear Lubricant (1604), which has an SAE grade of 90. Since the change to Duolec 1604, the car has completely stopped jumping out of first gear. The problem has disappeared.



*The owners of this 1994 BMW 318i with manual transmission replaced the gearbox oil with Duolec Vari-Purpose Gear Lubricant, which eliminated the mechanical problem they had been experiencing while avoiding outside repair costs.*

We also switched the engine oil to LE's Monolec Ultra® Engine Oil (8800), and the car has been a lot more responsive and is running noticeably smoother because of this change.

### Results

We cannot re-engineer a car's mechanical faults by using LE products, but sometimes it is worth a try. In this case, we had a very good outcome that resulted in cost savings and minimum downtime.

*Chris Unsworth, LE lubrication consultant, would like to thank his wife for being patient for three years and then not being too upset when it only took a half hour and a few litres of new gear oil to eliminate the problem.*

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Based on actual user experience. Individual results may vary. Not intended to supersede manufacturer specifications.

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