



**90727**

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**MAN**  
TG-A  
ALL ENGINE MODELS  
2002-

**PROBLEM** PREMATURE OIL COOLER FAILURE, INTERNAL BURST > LEAKAGES

## OIL PRESSURE RELIEF VALVE FAILURE > LEADS TO EXCESSIVE LUBRICANT PRESSURE AND OIL COOLER DAMAGE

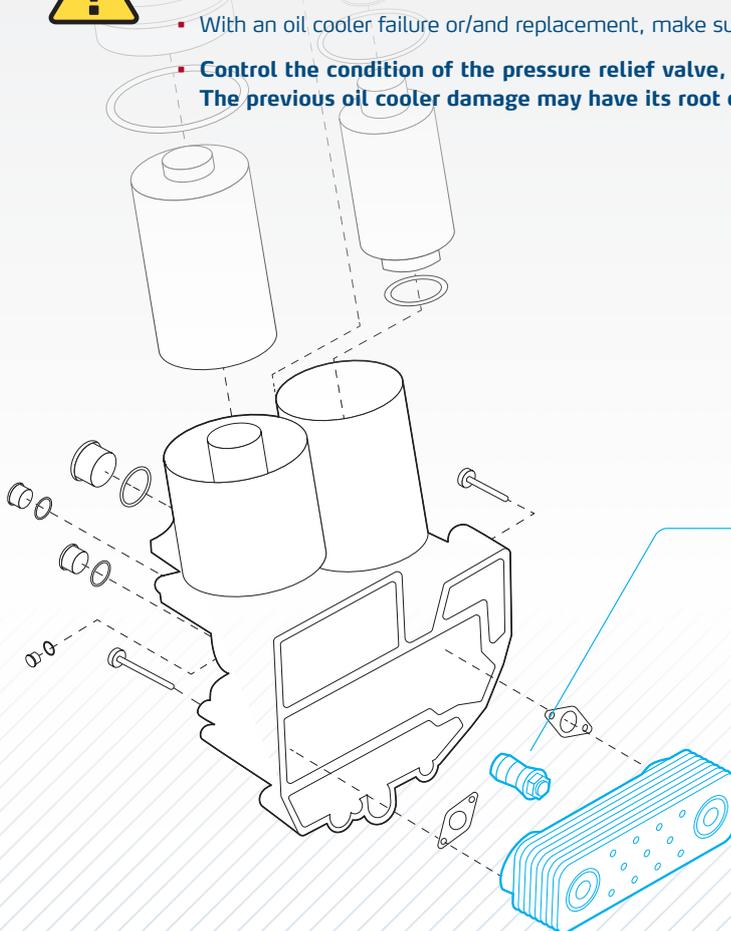
**BACKGROUND** Oil pressure relief valve withing the oil filter/oil cooler assembly makes sure that the delivered lubricant pressure is consistent regardless of the engine speed. It protects the system against overpressure. Malfunctions of the valve is one of the major reasons for oil pressure issues within the system. Its moving elements need very precise clearance or they can get stuck, thus causing failure in the flow control.

**Especially, the oil cooler/filter assembly installed close to the pump outlet can suffer from damage provoked by overpressure.**

**RECOMMENDED SOLUTION** The pressure relief valve may wear out over time but typically its failure is premature and consequential to other problems. To avoid the valve getting stuck, thus leading to the lubrication system's critical failure, some prevention and regular service are recommended:



- Replace oil and oil filter regularly and according to the vehicle's maintenance schedule.
- Ensure that the lubrication system is clean.
- With an oil cooler failure or/and replacement, make sure to measure the pressure of the lubricant in the system
- **Control the condition of the pressure relief valve, clean and replace it whenever a failure is suspected. The previous oil cooler damage may have its root cause in the valve failure.**



Lubricant mixed with coolant, seen on the oil cooler outlets. One of the most common outcomes of lubricant overpressure and internal bursting of the oil cooler.

Pressure Relief Valve location in the vehicle oil filter/oil cooler assembly. OE 51.05000-7098

**OE PART** 51 05405 0014

Oil Cooler, **Nissens #90727**



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