

AN: Symptom Chart 13[← AN: Introduction](#)**AN1 PRELIMINARY CHECKS**

- Perform the following preliminary checks:
 - External leaks (rocker cover gasket, crankshaft seals, etc.)
 - Proper dipstick
 - Proper oil viscosity and API rating. Refer to operator's guide.
 - Air Filter Minder
 - Loads do not exceed maximum GCVW

Are all checks OK?

Yes	No
GO to AN2 .	REPAIR as required. VERIFY a symptom no longer exists.

AN2 VERIFY HIGH OIL CONSUMPTION

- Confirm oil consumption through maintenance records or other documentation.
- If records are not available, have operator log oil consumption for 1450 km (900 miles).

Is oil consumption rate higher than 0.95 liter (1 quart) per 900 miles?

Yes	No
GO to AN3 .	No problem exists. RETURN vehicle to customer.

AN3 CHECK FOR OIL IN FUEL

- Remove fuel filter housing cover and check color of fuel.

Is fuel black, indicating there is oil in the fuel?

Yes	No
GO to AN4 .	GO to AN5 .

AN4 CHECK FUEL INJECTOR O-RINGS

- Remove injector and inspect middle O-rings.

Are middle O-rings missing or damaged?

Yes	No

REPLACE injector O-rings. VERIFY repair.	If high oil consumption has existed since vehicle was new, REPLACE fuel injectors. If engine did not consume oil when new, GO to AN5 .
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AN5 CHECK BASE ENGINE

- Perform crankcase pressure test. Refer to [Section 4A](#) or [Section 4B](#) , Diagnostic Subroutines.

Is pressure within specification?

Yes	No
GO to AN7 .	GO to AN6 .

AN6 ISOLATE TURBOCHARGER

- Remove air duct at turbocharger compressor housing outlet.
- Repeat crankcase pressure test.

Did crankcase pressure decrease?

Yes	No
REPLACE turbocharger. VERIFY repair.	GO to AN7 .

AN7 CHECK TURBOCHARGER FOR OIL LEAK

- Refer to the Workshop Manual for turbocharger inspection procedures.

Is turbocharger the cause of high oil consumption?

Yes	No
REPLACE turbocharger. VERIFY repair.	RETURN to Step GO to AN1 .
