

THIS TURBOCHARGER HAS BEEN TESTED, BALANCED AND INSPECTED BY PEOPLE THAT CARE.



- ✓ **COMPONENTS ARE INSPECTED FOR PROPER OEM TOLERANCES & VERIFIED**
- ✓ **VGT LEVERS ARE INSPECTED FOR PROPER TRAVEL & COLOR CODED BY INSPECTOR**
- ✓ **FINAL ASSEMBLY & VERIFICATION**
- ✓ **TURBOCHARGER IS PRECISION BALANCED & TESTED FOR OIL LEAKAGE**

OIL LEAKS ARE NOT CAUSED BY A DEFECTIVE TURBO

To determine if this is one of the reasons for the oil leakage, follow these steps:

CHECK THE SIZE OF THE OIL DRAIN LINE.

It should be equal to or larger than the bearing housing oil drain—and, the larger the oil drain, the better (within reason).



Scan QR Code to watch our Oil Leaks Video.

CHECK TO SEE HOW THE OIL IS RETURNING BACK TO THE ENGINE.

The oil drain line should be straight and downhill, with no level spots or upturns, to remain free-flowing with no restrictions. It's important to avoid 90° bends, so the drain line can enter the oil pan above the static oil line and not in line with the throw of the crank.

CHECK TO SEE IF THE ENGINE HAS EXCESS CRANKCASE PRESSURE/BLOW-BY.

If the engine has high mileage and is in need of rebuilding, this can cause excessive blow-by. This essentially creates a higher pressure or restriction in the oil drain and does not promote good oil flow, causing the oil to follow the least path of resistance.

If you follow these steps and determine it is not an improperly sized or restricted oil line, or excessive blow-by, then the leakage also may be due to excessive tilt of the turbocharger, a damaged bearing system, or worn or collapsed piston rings.

VGT Levers Are Seized Because of F.O.I.D

- Small hard particles exiting the engine can cause progressive and accumulated damage to the VG nozzle ring vanes.
- This progressive damage erodes the nozzle ring vanes and can cause deflection of the vanes.
- The vanes then become bound or seized within the shroud plate resulting in a stuck VG mechanism.
- Never continue to operate a turbocharger that is showing evidence of foreign object damage.



Scan QR Code to watch our VGT F.O.I.D. Video.

