



VGT Troubleshooting

Turbocharger Troubleshooting Chart

Before installing a replacement turbocharger on the vehicle it is important to identify the root cause of the failure. This troubleshooting chart contains common failure symptoms and possible causes.

POSSIBLE COMMON CAUSE NOT A POSSIBLE CAUSE

SYMPTOMS

- Black Smoke
- Blue Smoke
- Oil Leaks - Turbine Side
- Oil Leaks - Compressor Side
- Excessive Oil Consumption
- Turbocharger Noise
- Damaged Turbine/Compressor Wheel
- Loss of Power

POSSIBLE COMMON CAUSE

Possible Common Cause	Black Smoke	Blue Smoke	Oil Leaks - Turbine Side	Oil Leaks - Compressor Side	Excessive Oil Consumption	Turbocharger Noise	Damaged Turbine/Compressor Wheel	Loss of Power
Improperly Maintained Engine								
Low oil level/dirty oil								
Leaking or damaged / restricted oil feed and/or drain line								
Sludge build up in the center housing or oil feed line								
Coke build up on turbine wheel and / or VGT nozzle blades								
Dirty air filter								
Restricted crankcase breathers								
Cracks / Debris in or dirty charge air cooler								
Fuel management system improperly adjusted								
Restricted exhaust flow/Clogged DEF filtration system								
Worn Engine								
Increased blow by								
Worn engine components - piston rings, valve guides, cylinder liners								
Defective piston ring seal								
Leaking turbocharge seals								
Physical Damage / Noise								
Turbine / compressor damage from foreign objects								
Failed / damaged turbocharger bearings								
Turbine / compressor housing damage/leakage								
Air box cracked or missing								
Air / Exhaust inlet/outlet connections leaking								

Rev. 5



BOLINGBROOK, IL 815.886.9900	PALATINE, IL 847.991.7867	PERU, IL 815.224.3439	CHICAGO, IL 773.475.9000	ROCKDALE, IL 815.744.7800	AGAWAM, MA 413.789.6600	ALLENTOWN, PA 610.395.3718
DEEP RIVER, CT 860.526.5941	PORTLAND, OR 503.283.5615	ALBANY, OR 541.248.3802	BOCA RATON, FL 561.241.0242	CONCORD, NC 704.721.6661	VISIT US ONLINE: SeidelDieselGroup.com	



Specializing in Diesel Since 1981

