

Possible causes

Exhaust back pressure too high

Outlet pipes blocked or deformed

EGR valve carbonized, seized or leaking

Air filter dirty/wet, suction pipe deformed

Dirt in the compressor or intercooler

Crankcase ventilation clogged or deformed

Wiring for the control box or electronic actuator is faulty

Turbocharger bearing housing carbonised or full of oil

Turbine housing/waste gate flap damaged or cracked

Turbocharger bearing damage, increased bearing play

Fuel system/injection system faulty or with invalid values

Valve guide, piston rings, cylinder liners/sleeves worn, increased blow-by

Pressure lines, intercooler, intake manifold deformed or leaking

Pressure control flap does not open, VTG adjustment is not working

Pressure control flap does not close, VTG adjustment is not working

Compressor wheel or turbine wheel damged by an foreign object

Type of error

Power shortfall charging pressure too low

Oil leak on the compressor

Turbocharger Damage Matrix



This matrix is designed to easily identify cause of problems with a turbocharger. The relevant causes must be fixed before turbocharger replacement. If the actual cause of damage or malfunction is not found and fixed, it is likely that the problem will recur even with a new turbocharger.

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Leaks from the flange on the turbine housing and faulty exhaust system

Air flow meter and/or exhaust gas sensors faulty

Vacuum pump faulty/worn or vacuum pipes leaking

Too little oil supply and/or cracked/clogged oil supply pipe

































