Topic

Effects of gap growth on Ignition Coils

Issue

Please note that Spark Plug excessive gap growth combined with extended engine operation with this condition will severely impact Ignition Coil operation.

The ignition coil could experience the following as a result:

- 1) Overheating
- 2) Cracking
- 3) Insulation delamination
- 4) Random misfire
- 5) Primary and secondary winding deterioration
- 6) Spontaneous thermal event

Solution

NGK recommends replacing <u>all Ignition Coils</u> if the presented vehicle has Spark Plugs with excessive gap growth as a precautionary measure to ensure uninterrupted vehicle operation

Additional Information

Ignition Coils should be replaced if:

- ✓ There exists evidence of distortions, cracking, warping or overheating on ignition coils – <u>replace all coils as a general rule</u> if one or more show these symptoms
- ✓ Oil contamination replace all Ignition Coils affected
- ✓ Other fluid contamination coolant, fuel, Power Steering fluid, Windshield washer fluid, AC refrigerant, etc
- ✓ Causes of spark plug fouling either mechanical or fuel-based (excessive mechanical wear <worn rings, valve seals, bearings, etc>)
 - Prolonged issues causing excessively lean or rich conditions will lead to IC failure
 - Primary sensors (WRAF, O2)
 - Secondary sensor systems (MAF, IAT, CMP, CKP, etc)

