



ENGINES - MACHINING - SPARE PARTS

ACN 108 344 903 ABN 81 108 344 903



NOORDEMAN
DIESEL PTY LTD
the team for service & quality

Free Smoke Test

**We get asked a lot about what does this colour smoke means.
So we put together our own smoke analyser**

Black Smoke: It indicates poor and incomplete combustion of the diesel fuel.

- Block air filter or intake system
- Problem with fuel injector pump or injectors
- Engine timing out
- Low cylinder compression (i.e. cylinders, piston rings, ring grooves)
- Restricted induction system
- Excessive carbon build up in combustion and exhaust spaces
- Incorrect valve clearance
- Block or excessively dirty EGR Valve

Blue Smoke: is an indication of oil being burnt.

- Low cylinder compression (i.e. cylinders, piston rings, ring grooves)
- Worn oil rings – sticky oil rings when cold.
- Worn valve guides or seals
- Cylinder head pooling oil, valve oil drains blocked /sludge and poor PVC valve, similar to valve stem seal problem – called the “sludging” issue
- Cylinder glazed
- Incorrect grade of oil (e.g. oil too thin, and migrating past the rings)
- Fuel dilution in the oil (oil thinned out with diesel)
- High engine oil level

White Smoke: occurs when raw diesel comes through the exhaust completely intact and unburned

- Faulty glow plugs
- Low engine cranking speed
- Problem with fuel injector pump or injectors even the lift pump
- Incorrect injection timing (could be a worn timing gear or damaged crankshaft keyway).
- Fuel air leak
- Low cylinder compression (i.e. cylinders, piston rings, ring grooves)
- Incorrect valve clearance
- Water contamination of the fuel – water in combustion – head gasket seep

We can also help to provide you with oil analyses too.



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