



- PETROL
- PETROL AND DIESEL
- DIESEL
- COOLING
- OIL

## PROBLEM SOLVING GUIDE

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**PROBLEM SOLVER**

**PROBLEM PREVENTION**

PROBLEM	CAUSE	GASOLINE TREATMENT	GASOLINE INJECTOR CLEANER	GASOLINE DETOX PRO	OCTANE BOOSTER	STARTING FLUID SPRAY	INTAKE & COMBUSTION CHAMBER CLEANER	EGR, TURBO & INTAKE CLEANER	DRY FUEL	DIESEL TREATMENT	DIESEL INJECTOR CLEANER	DIESEL DETOX PRO	DPF CLEANING KIT	DPF REGENERATION AID	DIESEL ANTI BACTERIA	DIESEL ANTI FREEZE	RADIATOR SEALER & CONDITIONER	RADIATOR CLEANER	ENGINE FLUSH	OIL STOP LEAK	OIL STOP SMOKE	MOTOR OIL TREATMENT + MOS2	CERAMIC ENGINE PROTECTOR	HYDRAULIC VALVE LIFTER TREATMENT	BORTEC FRICTION FIGHTER
Poor cold starting	Water contamination in the fuel tank					✓			✓																
	Carbon build-up on injectors / poor spray pattern	●	✓	✓		✓	✓	●		●	✓	✓													
	Deposit build-up in combustion chamber	✓	✓	✓		✓	✓	●		✓	✓	✓													
	Dirty fuel system and/or carburettor	●	✓	✓		✓	✓	●		●	✓	✓													
Heavy fuel consumption	Diesel crystallization								✓							✓									
	Carbon build-up on injectors / poor spray pattern	●	✓	✓		✓	✓	●		●	✓	✓													
	Deposit build-up in combustion chamber	✓	✓	✓		✓	✓	●		✓	✓	✓													
	Dirty fuel system and/or carburettor	●	✓	✓		✓	✓	●		●	✓	✓													
Poor performance or acceleration	Contaminated air intake / restricted airflow			●		✓	✓					●													
	Contaminated / non-functioning EGR system			●		✓	✓	●				●													
	Carbon build-up on injectors / poor spray pattern	●	✓	✓		✓	✓	●		●	✓	✓													
	Fuel octane rating (RON) below requirement		●	✓	✓																				
Stalling / Hesitation / Flatspots	Dirty fuel system and/or carburettor	●	✓	✓		✓	✓	●		●	✓	✓													
	Contaminated air intake / restricted airflow			●		✓	✓					●													
	Contaminated / non-functioning EGR system			●		✓	✓	●				●													
	Carbon build-up on injectors/poor spray pattern	●	✓	✓		✓	✓	●		●	✓	✓													
Rotten egg smell	Deposit build-up in combustion chamber	✓	✓	✓		✓	✓	●		✓	✓	✓													
	Dirty fuel system and/or carburettor	●	✓	✓		✓	✓	●		●	✓	✓													
Pinking & pre-ignition	Contaminated air intake / restricted airflow			●		✓	✓					●													
	Fuel octane rating (RON) below requirement		●	✓	✓																				
Wear of diesel fuel pump	Deposit build-up in combustion chamber	✓	✓	✓		✓	✓	●		✓	✓	✓													
	Low sulphur diesel									✓	✓	✓													
Diesel knock / Cabin noise	Carbon build-up						●	●		✓	✓	✓													
	Haircracks in cooling system																✓								
Inefficient cooling/heating	Contamination build-up in cooling system																✓								
	Insufficient heat transfer via cooling liquid																✓	✓							
High exhaust emissions	Incomplete fuel combustion, incorrect air / fuel ratio	●	✓	✓		✓	✓	●		✓	✓	✓													
	Oil seeping past inlet valves, degradation of valve stem oil seals																			✓		✓	✓	✓	
Blue smoke at start-up	Worn engine components																			✓		✓	✓	✓	
	Oil seeping past piston rings & burning in combustion chamber	●		✓		✓				●		✓							✓			✓	●		
Black smoke (petrol)	Water contamination in fuel tank								✓																
	Carbon build-up in injectors / poor spray pattern	●	✓	✓		✓	✓	●		●	✓	✓													
Black smoke (diesel)	Deposit build-up in combustion chamber	✓	✓	✓		✓	✓	●		✓	✓	✓													
	Diesel mixture too rich						✓			●	✓	✓													
Blue or black smoke	High soot particle emissions						✓			●	✓	✓													
	Oil burning in combustion chamber / by-passing piston rings			●		✓						●							✓		✓	✓	✓		
Excessive oil consumption	Oil seeping past inlet valves, degradation of valve stem oil seals																			✓		✓	✓	✓	
	Oil burning in combustion chamber / by-passing piston rings			●		✓						●							✓		✓	✓	✓		
Engine oil leaks	Degraded seals in the oil system																			✓					
	Sludge and carbon deposit build-up on piston rings	●	●	✓		✓				●	●	✓							✓			✓	✓	✓	
Black sludgy oil on dipstick	Engine wear																			✓		✓	✓		
	Sludge and carbon deposit build-up in oil system	●	●	●		✓		●		●	●	●							✓		✓	✓	✓		
Tappet noise / Sticking hydraulic valve lifters	New oil contaminates quickly			✓		✓	✓	●		✓		✓							✓						
	Lacquer build-up in tappets, valve lifters / lash adjusters			●		✓	✓				●									✓				✓	✓
Top end engine rattle	Engine wear																				✓	✓	✓		
	High soot loading in filter, regeneration required											✓	✓	✓											
Clogged DPF	High soot loading in filter, no regeneration possible										●	✓	●												
	Crystallized diesel or bacteria contaminated diesel										●				✓	✓									
Excessive noise /fuel consumption	High friction / Engine wear																							✓	