

Problem	Indicator(s)/ diagnostics	Possible causes	Repair
Fractured piston ring			
Cracked piston crown			
Exhaust valve seal corrosion			
Flush back caused by misfire			
Clogged fuel oil strainer			

Blackout			
Worn cylinder liner			
Exhaust valves that stick			
Defective high-pressure fuel pump			
Worn crankshaft bearing			
Worn scraper ring and piston rings			

Valve that will not seal			
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