

TROUBLESHOOTING





Problem	Cause	Correction
Overheating 	Not enough coolant in system	Add coolant
	Leaks in cooling system	Retighten or repair
	Loose fan belt	Adjust
	Restriction to air flow through radiator	Remove restrictions
	Defective water pump	Replace
	Defective thermostat	Replace
	Defective fan	Replace
	High LLC concentration	Adjust LLC concentration
Too much white or blue smoke 	Too much oil in engine	Drain to correct level
	Oil viscosity too low	Change oil
	Defective thermostat (coolant temperature too low)	Replace
	Defective fuel injection nozzles	Repair or replace*
	Wrong injection timing	Adjust*
	Wrong fuel cetane number	Change fuel
	Poor compression (cylinders, piston rings, etc. worn)	Repair or replace*
Too much black or gray smoke 	Bad quality fuel	Change fuel
	Defective fuel injection pump	Repair or replace*
	Defective fuel injection nozzles	Repair or replace*
	Wrong injection timing	Adjust*
	Clogged air cleaner	Clean or replace
	Wrong valve clearance	Adjust
	Poor compression (cylinders, piston rings, etc. worn)	Repair or replace*
Fuel consumption too high 	Bad quality fuel	Change fuel
	Defective fuel injection pump	Repair or replace*
	Defective fuel injection nozzles	Repair or replace*
	Wrong injection timing	Adjust*
	Clogged air cleaner	Clean or replace
	Poor compression (cylinders, piston rings, etc. worn)	Repair or replace*

Table 12 Troubleshooting