Getting the most out of your

Perkins engine

A good inspection program combines your daily inspections with periodic in-depth analysis. These inspections allow you to locate potential problems before they lead to major repairs. Scheduled engine maintenance and repairs allow you to plan and control your operating costs and downtime.

Your daily visual inspection routine should include a complete visual and operational check of your engine. Perkins engines generally indicate problems with advanced warning signs, such as excess smoke, increased fuel and oil consumption and unusual noises. It is important that you and your staff recognise and understand these repair indicators. This handy guide helps you troubleshoot the most common engine problems.

What's the problem?

Possible causes

BLACK SMOKE AT FULL LOAD



Dirty primary/secondary air cleaner
Operating in too high a gear

Over-fueling

Overloading





Malfunctioning fuel nozzles/injectors

Malfunctioning turbocharger

Malfunctioning turbocharger

Dirty air cleaner

Improper set point

Fuel leak

BLUE SMOKE



Worn turbocharger seals

Worn rings/liners

Worn valve guides

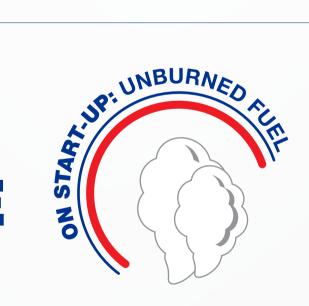
Hours on engine





Cracked head and/or liners
Leaking head gasket





Incorrect starting procedure
Incorrect fuel injector timing
Faulty injector





Worn or broken rings/liners
Worn turbocharger seals
Worn valve guides
Hours on engine





Malfunctioning fuel nozzles/injectors

Malfunctioning turbocharger

Worn piston pin bushings

Worn rod/main bearings

Too much valve lash

Contact your local Perkins distributor for a technical analysis inspection to determine the right course of action; repair determination, engine tune-up, fluid analysis or maintenance improvements to help you keep your engine running in prime condition. Find your local distributor online at **www.perkins.com/distributor**

