

# TROUBLESHOOTING GUIDE

## 1. ENGINE

This guide is not intended to cover every conditions, however many of the more common possibilities are listed.

| Trouble  | Service  | Remark |
|--|--|--------|
| The engine oil pressure lamp lights ON when engine speed is raised after completion of warm up.                  | <ul style="list-style-type: none"> <li>• Add the oil to the specified level.</li> <li>• Replace the oil filter cartridge.</li> <li>• Check oil leakage from the pipe or the joint.</li> <li>• Replace the monitor.</li> </ul>  |        |
| Steam is emitted from the top part of the radiator(The pressure valve).<br>Coolant level warning lamp lights ON. | <ul style="list-style-type: none"> <li>• Supply the coolant and check leakage.</li> <li>• Adjust fan belt tension.</li> <li>• Wash out inside of cooling system.</li> <li>• Clean or repair the radiator fin.</li> <li>• Check the thermostat.</li> <li>• Tighten the radiator cap firmly or replace the packing of it.</li> <li>• Replace the monitor.</li> </ul> |        |
| The engine does not start when the starting motor is turned over.  | <ul style="list-style-type: none"> <li>• Add fuel.</li> <li>• Repair where air is leaking into fuel system.</li> <li>• Check the injection pump or the nozzle.</li> <li>• Check the valve clearance.</li> <li>• Check engine compression pressure.</li> </ul>  |        |
| Exhaust gas is white or blue.  | <ul style="list-style-type: none"> <li>• Adjust to specified oil quantity.</li> <li>• Replace with specified fuel.</li> </ul>  |        |
| Exhaust gas occasionally turns black.  | <ul style="list-style-type: none"> <li>• Clean or replace the air cleaner element.</li> <li>• Check the nozzle.</li> <li>• Check engine compression pressure.</li> <li>• Clean or replace the turbocharger.</li> </ul>   |        |
| Combustion noise occasionally changes to breathing sound.  | <ul style="list-style-type: none"> <li>• Check the nozzle.</li> </ul>  |        |
| Unusual combustion noise or mechanical noise.  | <ul style="list-style-type: none"> <li>• Check with specified fuel.</li> <li>• Check over-heating</li> <li>• Replace the muffler.</li> <li>• Adjust valve clearance.</li> </ul>  |        |