

# 1980 Fuel Systems

## DIESEL TURBOCHARGER TROUBLE SHOOTING

CONDITION	POSSIBLE CAUSE	CORRECTION
<p>► Low Engine Power:</p>	<ol style="list-style-type: none"> <li>1) Wastegate malfunction.</li> <li>2) Exhaust system leaks ahead of turbocharger.</li> <li>3) Air inlet restriction.</li> <li>4) Exhaust system restriction.</li> <li>5) Compressor shaft oil seal leakage into intake system.</li> <li>6) Internal turbocharger defect.</li> </ol>	<ol style="list-style-type: none"> <li>1) Perform wastegate functional check and wastegate/boost pressure check.</li> <li>2) Locate and correct.</li> <li>3) Locate and correct.</li> <li>4) Locate and correct.</li> <li>5) Check for excessive crankcase pressure, engine oil level too high or oil drain lines restricted. If lubrication and crankcase ventilation system are normal or seal continues to leak after repair, replace center housing and rotating assembly (CHRA).</li> <li>6) Refer to Internal Inspection in turbocharger article.</li> </ol>
<p>► Oil Consumption Blue Exhaust Smoke:</p>	<ol style="list-style-type: none"> <li>1) Engine oil level too high.</li> <li>2) Turbocharger oil drain hose leaking or restricted.</li> <li>3) Internal turbocharger defect.</li> <li>4) Compressor/turbine shaft seals defective.</li> <li>5) Excessive crankcase pressure.</li> </ol>	<ol style="list-style-type: none"> <li>1) Diagnose and correct.</li> <li>2) Repair or clean.</li> <li>3) Refer to Internal Inspection in turbocharger article.</li> <li>4) Check for excessive crankcase pressure and repair as necessary. If crankcase pressure is normal or seals continue to leak after repair, replace center housing and rotating assembly (CHRA).</li> <li>5) Check and repair PCV system.</li> </ol>
<p>► Excessive Turbocharger Noise:</p>	<ol style="list-style-type: none"> <li>1) Exhaust system leakage.</li> <li>2) Internal turbocharger defect.</li> <li>3) Inadequate turbocharger lubrication.</li> </ol>	<ol style="list-style-type: none"> <li>1) Locate and repair.</li> <li>2) Refer to Internal Inspection in turbocharger article.</li> <li>3) Check and repair oil feed line.</li> </ol>