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### Service Information

- Take care not to damage the cylinder walls and pistons.
- Do not damage the piston sliding surfaces.
- When removing the pistons and the connecting rods, clean carbon and sludge from the top of the cylinder.
- When disassembling, mark and store each disassembled parts to ensure that they are reinstalled in their proper locations.
- Remove the liquid packing on the crankcase mating surfaces.

### Troubleshooting

#### Compression Too Low, Hard Starting

- Leaking cylinder head gasket
- Worn, stuck or broken piston ring
- Worn or damaged cylinder and piston

#### Compression Too High, Overheating or Knocking

- Excessive carbon built-up in cylinder or on top of piston

#### Piston Knocking

- Worn cylinder, piston or piston ring
- Worn piston pin and piston pin hole
- Worn connecting rod small end

#### Excessive Smoke

- Worn, stuck, or broken piston ring

#### Abnormal Noise

- Worn main journal bearing
- Worn connecting rod big end bearing
- Faulty transmission bearing
- Worn transmission gear or shaft
- Worn cylinder and piston
- Worn piston pin, piston pin hole or connecting rod small end
- Worn, stuck or broken piston ring