

# PISTON RINGS ASSEMBLY ERRORS

Assembly errors can and will contribute to high base pressure and can cause oil to bypass the rings. This can create a build-up of abrasive carbon, which can lead to ring scuffing, a loss of ring control, and possible piston seizure.



## PROBABLE CAUSES

- Piston ring end gap misalignment
- Expander end gap is same as oil ring end gap

When piston failure has occurred, it is extremely important to thoroughly inspect all of the engine components during the disassembly procedure. This thorough inspection will lead you to the possible cause or causes of the piston failure and will ensure that the same piston failure doesn't occur once the engine is repaired and placed back into service by your customer.

## PISTON RING SCUFFING

Ring scuffing leads to ring face wear, which results in ring face damage and a loss of ring control. This causes high base pressure, oil consumption and possible piston scoring, due to the abrasive materials created by the ring scuffing condition. This can cause piston seizure if not addressed.



## PROBABLE CAUSES

- Fuel wash-down
- Debris ingestion
- Severe overloading during running period
- Lack of lubrication
- Overheating due to pre ignition
- Lean mixture
- Cooling defect

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