



# Advanced Crankcase Breather upgrade for Waukesha VHP gas engines

## Upgrade Offering

### Product description

The Waukesha\* VHP\* Advanced Crankcase Breather system maintains a slight negative pressure in the crankcase, ridding it of harmful water vapors and combustion gases, which help to prevent sludge buildup, oil contamination, and oil leaks. With the advanced breather system, vacuum lines from both turbocharger compressors create the draw past the engine seals that pull the gases from the crankcase. The gases go through a pre-separator and main filter separator to remove oil vapor before the gases are drawn into the engine. The separated oil is returned to the crankcase through a return tube that contains a one-way check valve to prevent backflow of oil and/or vapor into the separator. The specified negative crankcase pressure is maintained by the pressure regulating valve across speed and load changes.

### Product details

The Advanced Crankcase Breather system upgrade includes the following components:

- Breather pre-separator
- Crankcase pressure regulator valve
- Breather separator assembly
- Breather check valve
- Breather insulation blanket
- Breather system tubing
- Mounting brackets

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### Customer benefits

- **Reduced oil blow-by.** The breather separator assembly reduces oil blow-by as much as 90 percent compared to the previous system.
- **Less oil contamination.** The advanced breather design can help to significantly reduce oil contamination of the three-way catalyst element.
- **Reduced coking.** Because the breather system is connected to both turbocharger banks, the risk of coking the turbo and intake system is greatly reduced.
- **Extended service intervals.** While dependent on operating conditions, breather element service intervals are estimated to double to 8,000 hours.
- **Fewer oil leaks.** The crankcase vacuum is maintained across speed/load changes for enhanced sealing capability that results in reduced potential for crankcase oil leaks.

### Applicable units

VHP	L5790GSI L5774LT L5794LT L7042GL L5794GSI L7042GSI L7044GSI
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Note: This crankcase breather system is not available for Waukesha gas engines that use a low pressure (draw-thru) fuel system.

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