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2C5382: Why Hastings uses Flex-vent instead of OEM design

Hastings Manufacturing Company introduced ring set 2C5382 for 1.8L & 2.0L TFSI gasoline engines found in Volkswagen and Audi vehicles with Hastings Flex Vent oil control ring to solve the oil consumption problems these engines are known for. The OEM configuration contained a 2pc style oil control ring with very small oil drain holes. It has been observed that these small holes will clog up with carbon deposits over a short period of time. With the drain holes plugged the oil has no way to drain back to the crankcase and instead gets pushed above the oil control ring resulting in oil burning and potential engine failure.

Below on the left is a picture of the OEM 2pc oil control ring with the clogged up holes and the right picture after the ring was cleaned. The Hastings Flex Vent design shown at the bottom provides more area for oil to drain back which eliminates the possibility of clogging. Other added benefits of the Flex Vent oil assembly for gasoline engines include excellent conformability to the cylinder walls, improved efficiency and high resistance to installation breakage compared to the OEM 2pc oil control ring.



OEM 2pc Ring – Oil Drain Holes Clogged



OEM 2pc Ring – Oil Drain Holes Cleaned



Hastings Flex Vent – Large Oil Drain Back Area