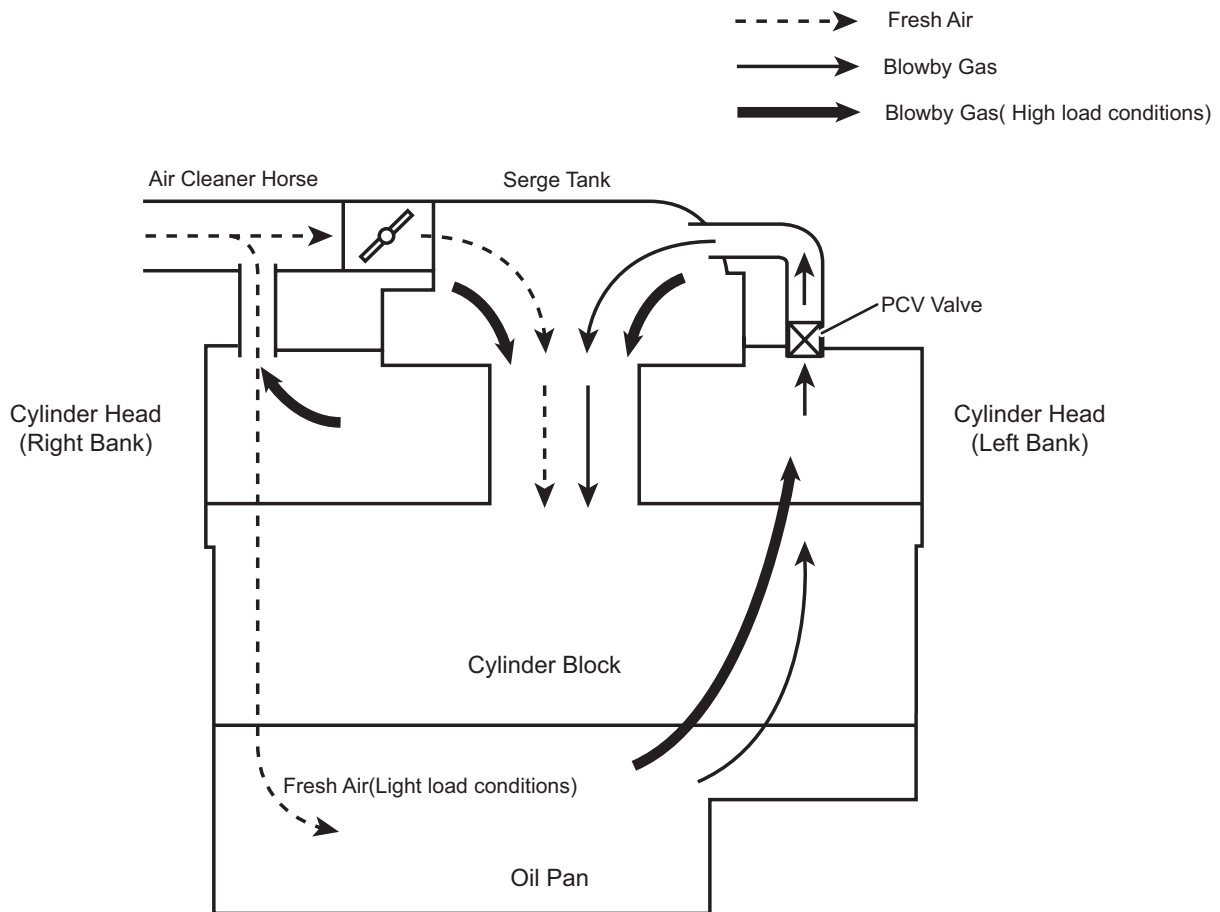


Blowby Gas Reduction System

- A PCV hose and a PCV valve are provided to forcefully feed the blowby gas into the intake system for combustion, in order to prevent the blowby gas, which includes a large amount of HC, from being discharged into the atmosphere. A new air circulating system is used wherein fresh air from the air cleaner hose is introduced via the right bank head cover and the blowby gas is discharged into the surge tank via the left bank head cover.
- Under light load conditions, the intake manifold vacuum causes the blowby gas to be drawn via the PCV valve into the intake manifold, to be combusted. The internal pressure is regulated in the crankcase, where fresh air is introduced from the cylinder head cover.
- Under high load conditions, the intake manifold vacuum forcefully introduces the blowby gas into the intake system, where it is combusted. This prevents the blowby gas, which contains a large amount of HC, from being released to the atmosphere.
- A dedicated oil return passage and a blowby gas passage are provided in the cylinder block and the cylinder head to enhance the oil return function and minimize the volume of oil that is taken away.



Conceptual operation image of the blowby reduction system

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