

Figure 3. Normal HC trace versus crank angle for five engine cycles, showing change in HC concentration during the valve-open period versus the valve closed period. From reference (1).

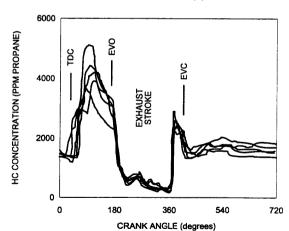


Figure 4. HC trace for five engine cycles with valve seat leakage, showing HC spike between TDC and EVO. From reference (1).

Detection of exhaust valve leakage using Fast FID sampling at the exhaust valve (from SAE paper 971638)

