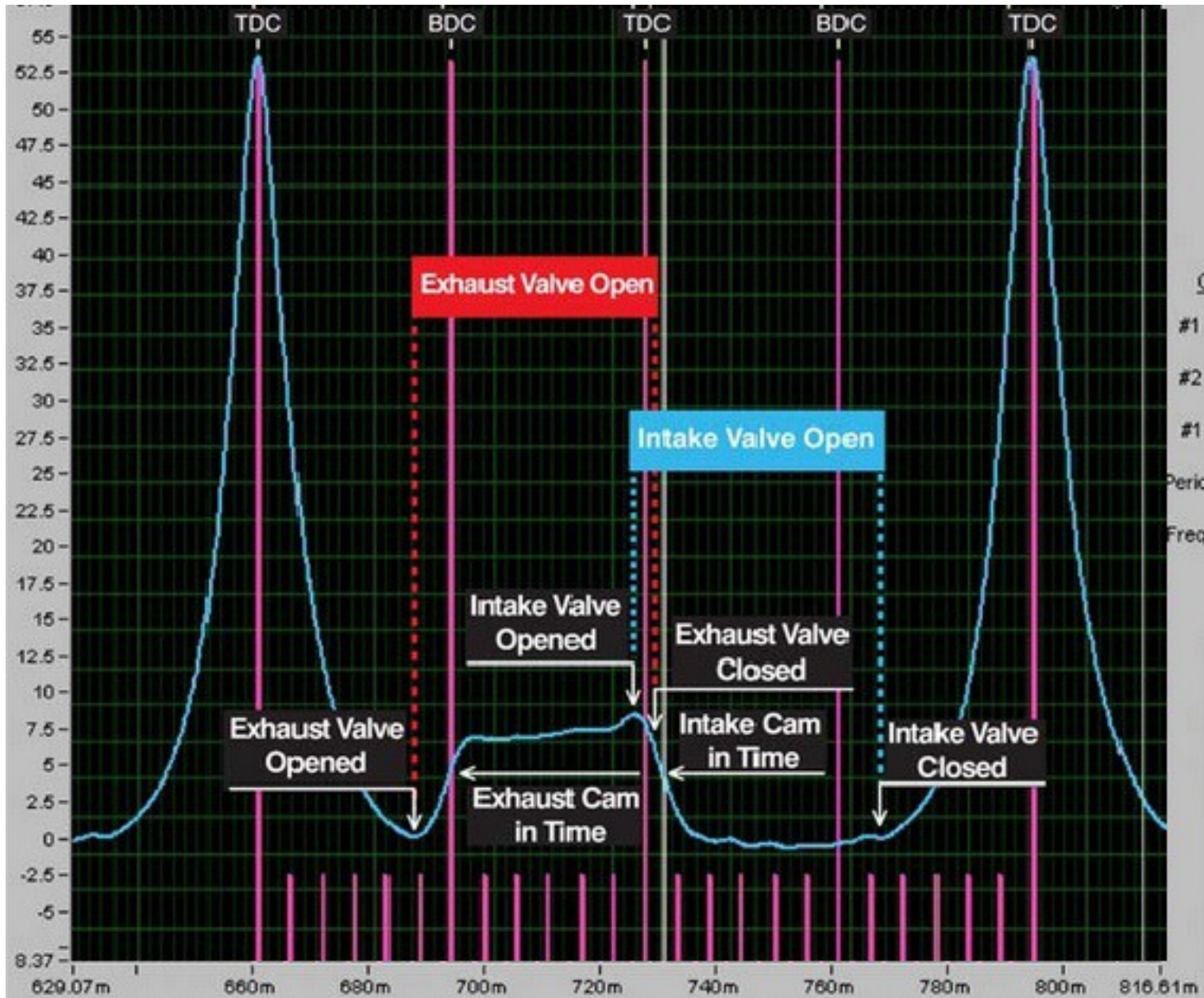


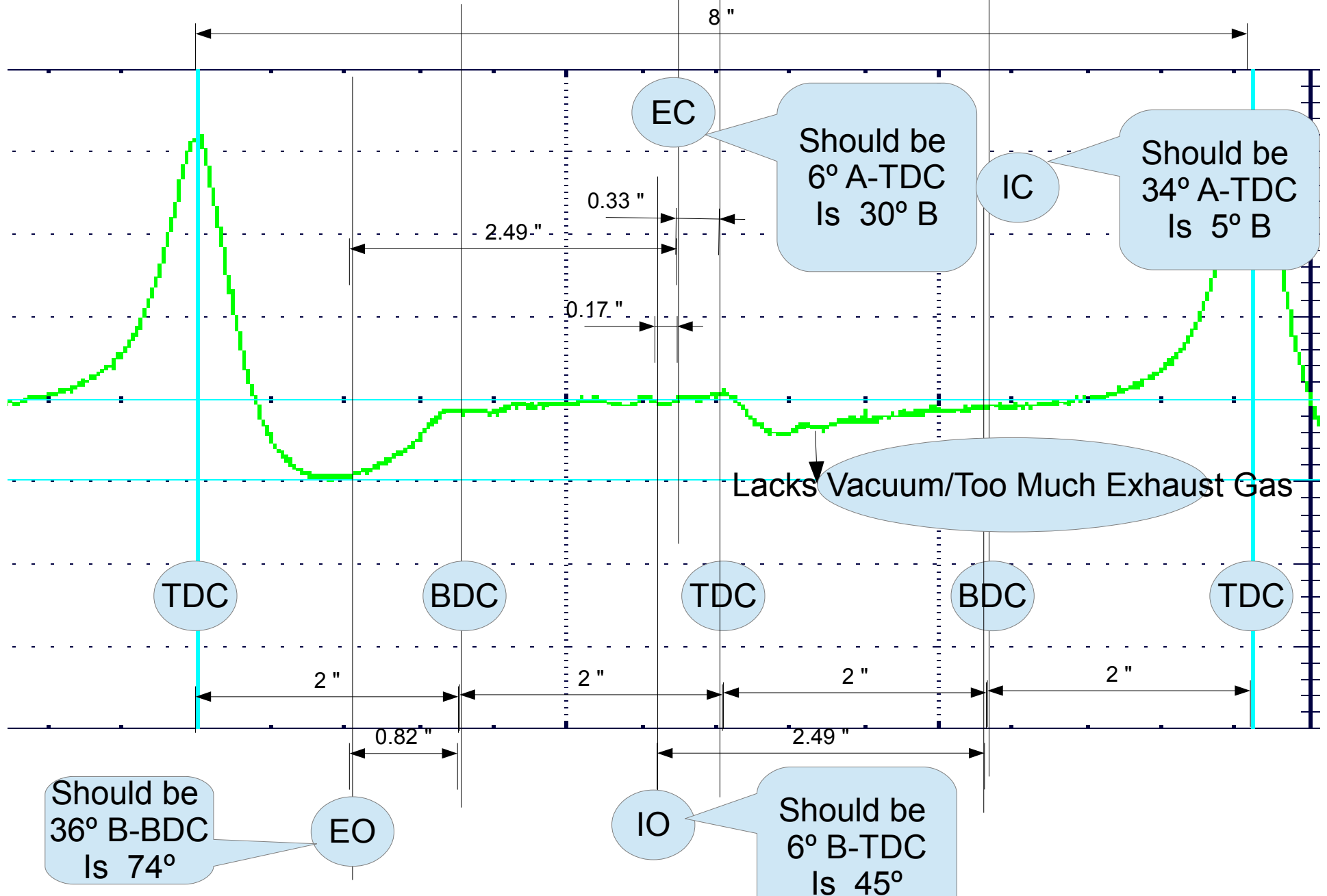
Example of Good Cylinder Waveform



2004_Chrysler_Pacifica_V6_35L_VIN_4.odg Analysis AJ's 8 June 15

.01" = 0.9 Degrees
O = Fully Open; C = End Duration

Scanner PID Deviation About
What We See Empirically



Conclusions Based On Facts and Inference

- 1) Valves Opening Early – One Is Seeing That Empirically And This Observation Is Consistent With The Pid For The P0016 Code
- 2) Rich Condition Caused By Intake Opening Too Early and Collecting Exhaust Gases In Intake Then Sucking Exhaust Into Chamber/Cylinder Not Air As It Should
- 3) Lack Of Vacuum Is Consequence Of Excess Exhaust Pressure In Chamber/Cylinder Because of Intake Opening Too Early and Collecting Exhaust Contributing To Rich Condition
- 4) As Engine Warmed And Exhaust Warmer The Exhaust Gas Pressure Increased Thus Starving Engine Even More For Air
- 5) Why Did Engine Even Start?? Suspect When Engine Cool There Is Enough Air Getting Into The System To Ignite Enough Fuel To Run A Bit
- 6) Being About 30 Degrees Off Is About 2-3 Cam Sprocket Teeth