

Mode \$05 and \$06 data definitions for
2004 - 2007 Saturn VUE w/ 3.5L V6 (L66)
 using KWP2000 diagnostic data

Mode \$05 - Oxygen Sensor Monitors and Constants				
Test ID (hex)	Type of O2 Sensor Number (hex)	Description	Decimal Range	Hex Range
Oxygen Sensor Monitors and Constants				
31	01	Sensor Circuit Slow Response - B1S1	0 - 10.2 seconds	00 - FF
86	01	Sensor Rationality check - B1S1	-8 - 7.9375 mA	00 - FF
8D	01	Sensor Signal Lean Stuck - B1S1	0 - 327.67 mm	00 - FF
38	02	Sensor Circuit Slow Response - B1S2	0 - 10.2 seconds	00 - FF
47	02	Sensor Circuit Open/ Low voltage - B1S2	0 - 1.275 V	00 - FF
48	02	Sensor Signal Lean Stuck - B1S2	0 - 1.275 V	00 - FF
49	02	Sensor Signal Rich Stuck - B1S2	0 - 1.275 V	00 - FF
31	10	Sensor Circuit Slow Response - B2S1	0 - 10.2 seconds	00 - FF
86	10	Sensor Rationality check - B2S1	-8 - 7.9375 mA	00 - FF
8D	10	Sensor Signal Lean Stuck - B2S1	0 - 327.67 mm	00 - FF
38	20	Sensor Circuit Slow Response - B2S2	0 - 10.2 seconds	00 - FF
47	20	Sensor Circuit Open/ Low voltage - B2S2	0 - 1.275 V	00 - FF
48	20	Sensor Signal Lean Stuck - B2S2	0 - 1.275 V	00 - FF
49	20	Sensor Signal Rich Stuck - B2S2	0 - 1.275 V	00 - FF
O2 Sensor Heater System Time to Activity Monitor				
8E	01	Oxygen sensor heater time to activity - B1S1	0 - 255 seconds	00 - FF
8F	01	Oxygen sensor heater time to activity - B1S1	0 - 255 ohms	00 - FF
57	01	Oxygen sensor heater time to activity - B1S1	0 - 12.75 V	00 - FF
8E	10	Oxygen sensor heater time to activity - B2S1	0 - 255 seconds	00 - FF
8F	10	Oxygen sensor heater time to activity - B2S1	0 - 255 ohms	00 - FF
57	10	Oxygen sensor heater time to activity - B2S1	0 - 12.75 V	00 - FF

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Test ID (hex)	Type of O2 Sensor Number (hex)	Description	Decimal Range	Hex Range
Mode \$06				
Test ID (hex)	Type of Test Limit <i>(see footnote on last page)</i> and Comp ID (hex)	Description	Decimal Range	Hex Range
Catalyst Efficiency Steady State Monitor				
62	04	Catalyst efficiency test bank 1	0 - 2 ²⁴ * 65535 (no unit)	0000 - FFFF
64	04	Catalyst efficiency test bank 2	0 - 2 ²⁴ * 65535 (no unit)	0000 - FFFF
Oxygen Sensor Monitors and Constants				
79	01	Sensor out put Out Of Range High side - B1S1	0 - 5/1024 * 32767 V	0000 - 7FFF
7A	01	Sensor out put Out Of Range High side - B2S1	0 - 5/1024 * 32767 V	0000 - 7FFF
Exhaust Gas Recirculation System Monitor				
03	81	EGR flow test	0 - 3276.7 %	0000 - 7FFF
04	81	EGR valve close stuck test	0 - 327.67 mm	0000 - 7FFF
05	01	EGR valve open stuck test	0 - 327.67 mm	0000 - 7FFF
06	01	EGR valve slow response test	0 - 327.67 mm	0000 - 7FFF

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Test ID (hex)	Type of O2 Sensor Number (hex)	Description	Decimal Range	Hex Range
Enhanced Evaporative System Monitor EVPD = Evap Vacuum Pressure Decay tests EONV = Engine Off Natural Vacuum tests				
81	81	EVPD purge vacuum fail test	-3276.8 mmHg - 3276.7 mmHg	0000 - FFFF
85	81	EVPD purge pass test	0 - 5242.8 seconds	0000 - FFFF
83	01	EVPD weak vacuum test	0 - 3276.7 litres	0000 - 7FFF
84	81	EVPD weak vacuum followup test	0 - 3276.7 seconds	0000 - 7FFF
87	01	EVAP small leak test	0 - 2 ¹⁴ * 32767 (no unit)	0000 - 7FFF
82	81	EVPD canister vent restriction test	0 - 655.35 litres	0000 - FFFF
8F	01	EVPD canister vent restriction preparation test	0 - 327.67 seconds	0000 - 7FFF
89	01	EONV fuel level rationality test	N/A	0000 - 7F00
8A	01	EONV vacuum rationality test	N/A	0000 - 7F00
8B	01	EONV vacuum rezeroing test	Not supported for 05MY	N/A

footnote:

bit 7:

Most significant bit indicates type of test limit, where:

0 - test limit is maximum value - test fails if test value is greater than this value

1 - test limit is minimum value - test fails if test value is less than this value

If the test result should be within a range of values, two messages will be returned, one with the maximum value and one with the minimum value.

bit 6 - bit 0

Component ID - manufacturer defined - necessary when multiple components or systems are present on the vehicle and have the same definition of test ID.