

Trip Points for the Monitoring System

The monitoring system determines the level of action that is taken by the ECM in response to a condition that can damage the engine. When any of these conditions occur, the appropriate event code will trip.

Table 1 contains the conditions that are monitored and the default trip points for each condition. Each condition has an associated parameter. The settings for each parameter can be viewed with the Caterpillar Electronic Technician (ET). The trip points for some of the parameters can be adjusted with Cat ET.

Table 1

Trip Points for the Monitoring System								
Condition	Action	Delay Time in Seconds			Trip Point			Default State
		Min	Max	Default	Min	Max	Default	
Low Engine Oil Pressure	Warning	N/A	N/A	30	N/A	N/A	(1)	On (2)
	Derate	N/A	N/A	30	N/A	N/A	(1)	On
[REDACTED]	[REDACTED]	N/A	N/A	30	N/A	N/A	[REDACTED]	[REDACTED]
	[REDACTED]	N/A	N/A	30	N/A	N/A	[REDACTED]	[REDACTED]
Engine Overspeed	Warning	N/A	N/A	0	N/A	N/A	115% of Rated Engine Speed (3)	On (2)
High Inlet Air Temperature	Warning	N/A	N/A	30	60 °C (140 °F)	70 °C (158 °F)	70 °C (158 °F)	On (2)
	Derate	N/A	N/A	30	66 °C (151 °F)	80 °C (176 °F)	80 °C (176 °F)	Off
High Transmission Oil Temperature	Warning	1	60	10	50 °C (122 °F)	120 °C (248 °F)	95 °C (203 °F)	On
High Transmission Oil Pressure	Warning	1	60	10	689 kPa (100 psi)	2900 kPa (420)	2412 kPa (350 psi)	On
Low Engine Coolant Level	Warning	4	60	30	N/A	N/A	N/A	On
	Derate	4	60	30	N/A	N/A	N/A	On
High Fuel Temperature	Warning	N/A	N/A	30	60 °C (140°F)	90 °C (194 °F)	75 °C (167 °F)	On
High Fuel Pressure	Warning	1	30	2	N/A	N/A	(1)	Off
Low Fuel Pressure	Warning	1	30	2	N/A	N/A	(1)	Off
Low Fuel Level	Warning	60	900	300	5 percent	95 percent	12 percent	Off

(1) Map dependent value

(3) Fuel injection is disabled when the engine speed exceeds 115% of rated engine speed. Fuel injection is enabled when the engine speed drops below the high idle engine speed.