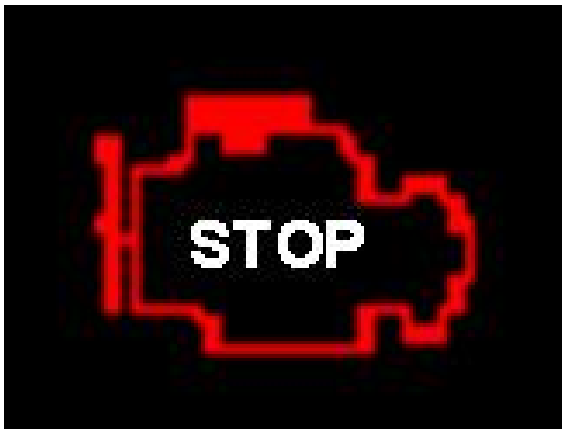




CATERPILLAR



ECU128

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PID/SID	FMI		
1	11	injector solenoid cyl#1	current below normal or open
2	11	injector solenoid cyl#2	current below normal or open
3	11	injector solenoid cyl#3	current below normal or open
4	11	injector solenoid cyl#4	current below normal or open
5	11	injector solenoid cyl#5	current below normal or open
6	11	injector solenoid cyl#6	current below normal or open
22	13	ECU	speed signal calibration not performed
30	8	PTO	PTO throttle signal invalid
30	13	PTO	PTO throttle signal out of calibration
32	5	turbo wastegate solenoid	current below normal
32	6	turbo wastegate solenoid	current above normal or shorted to ground
32	11	turbo wastegate solenoid	current mismatch
41	3	8 volt supply	voltage above normal or shorted high
41	4	8 volt supply	voltage below normal or shorted low
42	11	Injection Actuation Pump	output failure
43	2	ECU	key switch
64	2	speed sensor	loss of signal
64	11	speed sensor	erratic data signal
70	5	intake heater	current below normal
70	6	intake heater	current above normal or shorted to ground
71	1	idle	idle shutdown
71	14	PTO	PTO shutdown
84	0	vehicle speed sensor	over speed warning
84	1	vehicle speed sensor	loss of signal
84	2	vehicle speed sensor	erratic/incorrect data signal
84	8	vehicle speed sensor	signal out of normal range
84	10	vehicle speed sensor	abnormal rate of change
84	14	vehicle speed sensor	quick stop occurrence
91	8	throttle position	invalid signal
91	13	throttle position	out of calibration
94	1	fuel pressure	low fuel pressure
94	3	fuel pressure	voltage above normal
94	4	fuel pressure	voltage below normal
94	11	fuel pressure	low cranking fuel pressure
96	3	fuel level	voltage above normal
96	4	fuel level	voltage below normal
100	1	oil pressure sensor	low pressure warning
100	3	oil pressure sensor	voltage above normal
100	4	oil pressure sensor	voltage below normal
100	11	oil pressure sensor	very low oil pressure
102	1	intake mflld pres sensor	low boost pressure
102	3	intake mflld pres sensor	voltage above normal or shorted high
102	4	intake mflld pres sensor	voltage below normal or open circuit
102	2	intake mflld pres sensor	data does not match current conditions
102	7	intake mflld pres sensor	not responding
105	3	intake mflld tem sensor	voltage above normal or shorted high
105	4	intake mflld tem sensor	voltage below normal or open circuit
105	0	intake mflld tem sensor	temperature above protection limit
105	11	intake mflld tem sensor	very high intake air temperature

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PID/SID	FMI		
108	3	barometric pres sensor	voltage above normal or shorted high
108	4	barometric pres sensor	voltage below normal or shorted low
108	2	barometric pres sensor	erratic/incorrect data signal
110	3	coolant temp sensor	voltage above normal or shorted high
110	4	coolant temp sensor	voltage below normal or open circuit
110	0	coolant temp sensor	temperature above normal range
110	11	coolant temp sensor	very high coolant temperature
111	2	coolant level sensor	invalid signal
111	3	coolant level sensor	voltage above normal or shorted high
111	4	coolant level sensor	voltage below normal or open circuit
111	1	coolant level sensor	level below normal range
111	11	coolant level sensor	very low coolant level
128	3	sec fuel level	voltage below normal or shorted low
128	4	sec fuel level	voltage above normal or shorted high
164	2	injection actuation pressure	erratic signal
164	3	injection actuation pressure	voltage above normal
164	4	injection actuation pressure	voltage below normal
164	0	injection actuation pressure	excessive pressure
164	11	injection actuation pressure	system failure
168	2	ECM failure	supply voltage intermittent
168	1	ECM failure	supply voltage low
168	0	ECM failure	supply voltage high
173	0	exhaust temperature	derate for high exhaust temperature
173	11	exhaust temperature	derate for very high exhaust temperature
186	4	PTO	PTO shutdown switch v oltage low
186	14	PTO	PTO shutdown switch occurrence
190	0	engine speed	overspeed warning
190	2	engine speed	loos of data signal
190	11	engine speed	erratic signal
224	11	theft deterent	active signal
224	14	theft deterent	active signal when cranking
231	2	J1939 data	incorrect data fron J1939
231	11	J1939 data	J1939 configuration
231	12	J1939 data	loss of data signal
231	14	J1939 data	transmission data link derate
232	3	5 volt supply	voltage above normal
232	4	5 volt supply	voltage below normal
232	3	sensor supply	voltage above normal or shorted high
232	4	sensor supply	voltage below normal or shorted low
246	11	brake pedal switch1	switch not responding
247	11	brake pedal switch2	switch not responding
251	12	injector power supply	low voltage for injector power supply
251	2	ECM failure	igniton power lost to ecm
252	11	ECU	incorrect engine software
253	2	ECU	customer or system parameters
253	14	ECU	OEM parameter not programmed
311	14	ATD	active regeneration inhibited due to low exhaust temperature
314	3	clean gas induction	CGI pressure sensor voltage above normal
314	4	clean gas induction	CGI pressure sensor voltage below normal

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PID/SID	FMI		
315	2	clean gas induction	CGI temp high
315	3	clean gas induction	CGI temp sensor voltage above normal
315	4	clean gas induction	CGI temp sensor voltage below normal
316	0	clean gas induction	CGI flow rate high
316	3	clean gas induction	CGI temp sensor voltage above normal
316	4	clean gas induction	CGI temp sensor voltage below normal
316	11	clean gas induction	CGI flow rate high
316	14	clean gas induction	CGI flow rate low
317	5	clean gas induction	CGI actuator shaft current below normal
317	6	clean gas induction	CGI actuator shaft current above normal
324	0	ATD	ATD differential pressure above limits
320	0	ATD	ATD filter temperature high
320	1	ATD	ATD filter temperature high
320	11	ATD	ATD filter temperature very high
320	3	ATD	ATD filter temperature sensor voltage above normal
320	4	ATD	ATD filter temperature sensor voltage below normal
324	11	ATD	ATD differential pressure, high filter restriction
324	3	ATD	ATD differential pressure voltage above normal
324	4	ATD	ATD differential pressure voltage below normal
324	2	ATD	ATD differential pressure signal erratic
324	1	ATD	ATD differential pressure , filter restricted
324	0	ATD	ATD differential pressure above limits
327	2	ATD	ATD exhaust gas temperature 2 data drifted high
327	3	ATD	ATD exhaust gas temperature 2 voltage above normal
327	4	ATD	ATD exhaust gas temperature 2 voltage below normal
332	3	aftertreatment fuel pressure control	aftertreatment fuel pressure sensor voltage above normal
332	4	aftertreatment fuel pressure control	aftertreatment fuel pressure sensor voltage below normal
332	11	aftertreatment fuel pressure control	aftertreatment fuel pressure high
333	5	aftertreatment fuel pressure control	ARD solenoid current abovenormal
333	6	aftertreatment fuel pressure control	ARD solenoid current above normal
334	5	aftertreatment fuel actuator	ARD solenoid current below normal
334	6	aftertreatment fuel actuator	ARD solenoid current above normal
335	5	aftertreatment ignition	ARD ignition current below normal
335	6	aftertreatment ignition	ARD ignition current above normal
336	3	aftertreatment 2 fuel pressure	sensor voltage above normal
336	4	aftertreatment 2 fuel pressure	sensor voltage below normal
336	11	aftertreatment 2 fuel pressure	fuel pressure high
341	5	aftertreatment purge air actuator	ARD purge air current below normal
341	6	aftertreatment purge air actuator	ARD purge air current above normal
349	1	aftertreatment purge air actuator	ARD purge air pressure low
349	7	aftertreatment purge air actuator	ARD purge pressure not responding
350	5	aftertreatment air pressure control	ARD solenoid current below normal
350	6	aftertreatment air pressure control	ARD solenoid current above normal
350	7	aftertreatment air pressure control	ARD solenoid not responding
356	11	ATD	ARD failed to ignite
357	11	ATD	ARD loss of ignition
360	11	aftertreatment	parked regen manually disabled
373	3	ATD secondary differential pressure	sensor voltage above normal
373	4	ATD secondary differential pressure	sensor voltage below normal