

PID Comparison List

Information compiled from Caterpillar Manuals: SEBU6874-04 March 2000 and REHS0806-02 April 2003

Item No.	Parameter Identifier (PID)	Description	EMCP II	3400	3500	G3500B	G3600A	ADEM III	ICSM	ITSM
1	\$00 \$03	Detonation Level				Y	Y			
2	\$00 \$08	Engine Configuration		Y	Y					
3	\$00 \$0D	Remote Fault Reset	Y	Y	Y					
4	\$00 \$15	Throttle Position		Y	Y					
5	\$00 \$40	Engine RPM	Y	Y	Y	Y	Y	Y		
6	\$00 \$41	Actual Engine Timing				Y	Y	Y		
7	\$00 \$42	Generator Set Ring Gear Teeth Setpoint	Y							
8	\$00 \$44	Engine Coolant Temperature	Y	Y	Y	Y	Y			
9	\$00 \$46	Desired Engine Speed		Y	Y	Y	Y	Y		
10	\$00 \$47	First Desired Timing				Y	Y	Y		
11	\$00 \$4D	Transmission Oil Temperature (Marine Only)			Y					
12	\$00 \$4E	Transmission Oil Pressure (absolute) (Marine Only)			Y					
13	\$00 \$53	Atmospheric Pressure		Y	Y					
14	\$00 \$54	Engine Oil Pressure (gauge)	Y	Y	Y	Y	Y	Y		
15	\$00 \$55	Boost Pressure (gauge)		Y	Y					
16	\$00 \$58	Air Filter Restriction			Y					
17	\$00 \$5A	Filtered Engine Oil Pressure (absolute)		Y	Y					
18	\$00 \$5B	Boost Pressure (absolute)		Y	Y					
19	\$00 \$5C	Left Turbocharger Inlet Pressure (absolute)			Y					
20	\$00 \$5E	Generator Set Hourmeter	Y	Y	Y					
21	\$00 \$5E	Diagnostic Clock						Y		
22	\$00 \$5F	Right Turbocharger Inlet Pressure (absolute)			Y					
23	\$00 \$80	Device ID Code	Y							
24	\$00 \$82	Fault Log Codes, Status and No. of Occurrences	Y	Y	Y					
25	\$00 \$83	Fault Log Request for Additional Data	Y	Y	Y					
26	\$00 \$84	Fault Log Response for Additional Information	Y	Y	Y					

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27	\$00 \$C8	Total Fuel		Y	Y					
28	\$AA \$FA \$0D	Activate Diagnostic Broadcast				Y	Y			
29	\$AA \$FA \$0E	Activate Event Broadcast				Y	Y			
30	\$D0 \$00 \$20	Cylinder 1 Detonation Level				Y	Y	Y		
31	\$D0 \$00 \$21	Cylinder 2 Detonation Level				Y	Y	Y		
32	\$D0 \$00 \$22	Cylinder 3 Detonation Level				Y	Y	Y		
33	\$D0 \$00 \$23	Cylinder 4 Detonation Level				Y	Y	Y		
34	\$D0 \$00 \$24	Cylinder 5 Detonation Level				Y	Y	Y		
35	\$D0 \$00 \$25	Cylinder 6 Detonation Level				Y	Y	Y		
36	\$D0 \$00 \$26	Cylinder 7 Detonation Level				Y	Y	Y		
37	\$D0 \$00 \$27	Cylinder 8 Detonation Level				Y	Y	Y		
38	\$D0 \$00 \$28	Cylinder 9 Detonation Level				Y	Y	Y		
39	\$D0 \$00 \$29	Cylinder 10 Detonation Level				Y	Y	Y		
40	\$D0 \$00 \$2A	Cylinder 11 Detonation Level				Y	Y	Y		
41	\$D0 \$00 \$2B	Cylinder 12 Detonation Level				Y	Y	Y		
42	\$D0 \$00 \$2C	Cylinder 13 Detonation Level				Y	Y	Y		
43	\$D0 \$00 \$2D	Cylinder 14 Detonation Level				Y	Y	Y		
44	\$D0 \$00 \$2E	Cylinder 15 Detonation Level				Y	Y	Y		
45	\$D0 \$00 \$2F	Cylinder 16 Detonation Level				Y	Y	Y		
46	\$D0 \$00 \$30	Cylinder 17 Detonation Level				Y	Y			
47	\$D0 \$00 \$31	Cylinder 18 Detonation Level				Y	Y			
48	\$D0 \$00 \$32	Cylinder 19 Detonation Level				Y	Y			
49	\$D0 \$00 \$33	Cylinder 20 Detonation Level				Y	Y			
50	\$D0 \$00 \$38	Gas Fuel Pressure						Y		
51	\$D0 \$00 \$40	Cylinder 1 Ignition Timing				Y	Y	Y		
52	\$D0 \$00 \$41	Cylinder 2 Ignition Timing				Y	Y	Y		
53	\$D0 \$00 \$42	Cylinder 3 Ignition Timing				Y	Y	Y		
54	\$D0 \$00 \$43	Cylinder 4 Ignition Timing				Y	Y	Y		
55	\$D0 \$00 \$44	Cylinder 5 Ignition Timing				Y	Y	Y		
56	\$D0 \$00 \$45	Cylinder 6 Ignition Timing				Y	Y	Y		
57	\$D0 \$00 \$46	Cylinder 7 Ignition Timing				Y	Y	Y		
58	\$D0 \$00 \$47	Cylinder 8 Ignition Timing				Y	Y	Y		
59	\$D0 \$00 \$48	Cylinder 9 Ignition Timing				Y	Y	Y		
60	\$D0 \$00 \$49	Cylinder 10 Ignition Timing				Y	Y	Y		
61	\$D0 \$00 \$4A	Cylinder 11 Ignition Timing				Y	Y	Y		
62	\$D0 \$00 \$4B	Cylinder 12 Ignition Timing				Y	Y	Y		

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63	\$D0 \$00 \$4C	Cylinder 13 Ignition Timing				Y	Y	Y		
64	\$D0 \$00 \$4D	Cylinder 14 Ignition Timing				Y	Y	Y		
65	\$D0 \$00 \$4E	Cylinder 15 Ignition Timing				Y	Y	Y		
66	\$D0 \$00 \$4F	Cylinder 16 Ignition Timing				Y	Y	Y		
67	\$D0 \$00 \$50	Cylinder 17 Ignition Timing				Y	Y			
68	\$D0 \$00 \$51	Cylinder 18 Ignition Timing				Y	Y			
69	\$D0 \$00 \$52	Cylinder 19 Ignition Timing				Y	Y			
70	\$D0 \$00 \$53	Cylinder 20 Ignition Timing				Y	Y			
71	\$D0 \$00 \$EB	Cylinder 1 Transformer Secondary Output Voltage %				Y	Y	Y		
72	\$D0 \$00 \$EC	Cylinder 2 Transformer Secondary Output Voltage %				Y	Y	Y		
73	\$D0 \$00 \$ED	Cylinder 3 Transformer Secondary Output Voltage %				Y	Y	Y		
74	\$D0 \$00 \$EE	Cylinder 4 Transformer Secondary Output Voltage %				Y	Y	Y		
75	\$D0 \$00 \$EF	Cylinder 5 Transformer Secondary Output Voltage %				Y	Y	Y		
76	\$D0 \$00 \$F0	Cylinder 6 Transformer Secondary Output Voltage %				Y	Y	Y		
77	\$D0 \$00 \$F1	Cylinder 7 Transformer Secondary Output Voltage %				Y	Y	Y		
78	\$D0 \$00 \$F2	Cylinder 8 Transformer Secondary Output Voltage %				Y	Y	Y		
79	\$D0 \$00 \$F3	Cylinder 9 Transformer Secondary Output Voltage %				Y	Y	Y		
80	\$D0 \$00 \$F4	Cylinder 10 Transformer Secondary Output Voltage %				Y	Y	Y		
81	\$D0 \$00 \$F5	Cylinder 11 Transformer Secondary Output Voltage %				Y	Y	Y		
82	\$D0 \$00 \$F6	Cylinder 12 Transformer Secondary Output Voltage %				Y	Y	Y		
83	\$D0 \$00 \$F7	Cylinder 13 Transformer Secondary Output Voltage %				Y	Y	Y		
84	\$D0 \$00 \$F8	Cylinder 14 Transformer Secondary Output Voltage %				Y	Y	Y		
85	\$D0 \$00 \$F9	Cylinder 15 Transformer Secondary Output Voltage %				Y	Y	Y		
86	\$D0 \$00 \$FA	Cylinder 16 Transformer Secondary Output Voltage %				Y	Y	Y		
87	\$D0 \$00 \$FB	Cylinder 17 Transformer Secondary Output Voltage %				Y	Y			
88	\$D0 \$00 \$FC	Cylinder 18 Transformer Secondary Output Voltage %				Y	Y			
89	\$D0 \$00 \$FD	Cylinder 19 Transformer Secondary Output Voltage %				Y	Y			
90	\$D0 \$00 \$FE	Cylinder 20 Transformer Secondary Output Voltage %				Y	Y			
91	\$D0 \$01 \$09	Fuel Valve Position				Y				
92	\$D0 \$01 \$0A	Fuel Valve Differential Pressure				Y	Y			
93	\$D0 \$01 \$2F	Desired Speed Input Configuration				Y	Y			
94	\$D0 \$01 \$30	Engine Speed Drop Time				Y	Y	Y		
95	\$D0 \$01 \$31	Engine Prelube Time Out Period				Y	Y			
96	\$D0 \$02 \$5B	Prechamber Fuel Pressure - Absolute						Y		
97	\$D0 \$02 \$7D	Maximum Engine High Idle Speed				Y	Y	Y		

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98	\$D0 \$02 \$7E	Minimum Engine High Idle Speed				Y	Y	Y		
99	\$D0 \$02 \$7F	High Inlet Air Temperature Engine Load Set Point				Y	Y	Y		
100	\$D0 \$02 \$81	Fuel Specific Heat Ratio				Y				
101	\$D0 \$02 \$AE	Maximum Fuel Flow Setting				Y				
102	\$D0 \$03 \$75	Throttle Actuator Position Command				Y	Y			
103	\$D0 \$03 \$77	Engine #2 Throttle Actuator Trim (Tandem engines only)				Y	Y			
104	\$D0 \$03 \$78	Desired Inlet Manifold Air Pressure Offset (Tandems only)				Y	Y			
105	\$D0 \$03 \$79	Master Engine Desired Exhaust Oxygen (Tandems only)				Y	Y			
106	\$D0 \$03 \$A5	Right Turbo Turbine Speed							Y	
107	\$D0 \$03 \$A6	Left Turbo Turbine Speed							Y	
108	\$D0 \$03 \$AE	Last Crankshaft Bearing Oil Pressure							Y	
109	\$D0 \$03 \$AF	High Temperature Cooler Inlet Jacket Water Pressure							Y	
110	\$D0 \$03 \$E0	Cylinder #1 Injection Duration							Y	
111	\$D0 \$03 \$E1	Cylinder #2 Injection Duration							Y	
112	\$D0 \$03 \$E2	Cylinder #3 Injection Duration							Y	
113	\$D0 \$03 \$E3	Cylinder #4 Injection Duration							Y	
114	\$D0 \$03 \$E4	Cylinder #5 Injection Duration							Y	
115	\$D0 \$03 \$E5	Cylinder #6 Injection Duration							Y	
116	\$D0 \$03 \$E6	Cylinder #7 Injection Duration							Y	
117	\$D0 \$03 \$E7	Cylinder #8 Injection Duration							Y	
118	\$D0 \$03 \$E8	Cylinder #9 Injection Duration							Y	
119	\$D0 \$03 \$E9	Cylinder #10 Injection Duration							Y	
120	\$D0 \$03 \$EA	Cylinder #11 Injection Duration							Y	
121	\$D0 \$03 \$EB	Cylinder #12 Injection Duration							Y	
122	\$D0 \$03 \$EC	Cylinder #13 Injection Duration							Y	
123	\$D0 \$03 \$ED	Cylinder #14 Injection Duration							Y	
124	\$D0 \$03 \$EE	Cylinder #15 Injection Duration							Y	
125	\$D0 \$03 \$EF	Cylinder #16 Injection Duration							Y	
126	\$D0 \$03 \$F4	Cylinder #1 Injection Timing							Y	
127	\$D0 \$03 \$F5	Cylinder #2 Injection Timing							Y	
128	\$D0 \$03 \$F6	Cylinder #3 Injection Timing							Y	
129	\$D0 \$03 \$F7	Cylinder #4 Injection Timing							Y	

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130	\$D0 \$03 \$F8	Cylinder #5 Injection Timing								Y
131	\$D0 \$03 \$F9	Cylinder #6 Injection Timing								Y
132	\$D0 \$03 \$FA	Cylinder #7 Injection Timing								Y
133	\$D0 \$03 \$FB	Cylinder #8 Injection Timing								Y
134	\$D0 \$03 \$FC	Cylinder #9 Injection Timing								Y
135	\$D0 \$03 \$FD	Cylinder #10 Injection Timing								Y
136	\$D0 \$03 \$FE	Cylinder #11 Injection Timing								Y
137	\$D0 \$03 \$FF	Cylinder #12 Injection Timing								Y
138	\$D0 \$04 \$00	Cylinder #13 Injection Timing								Y
139	\$D0 \$04 \$01	Cylinder #14 Injection Timing								Y
140	\$D0 \$04 \$02	Cylinder #15 Injection Timing								Y
141	\$D0 \$04 \$03	Cylinder #16 Injection Timing								Y
142	\$D0 \$04 \$18	Choke (Proportional) Gain %								Y
143	\$D0 \$04 \$19	Choke (Integral) Stability %								Y
144	\$D0 \$04 \$1A	Choke (Derivative) Compensation %								Y
145	\$D0 \$04 \$53	Engine Oil to Engine Coolant Differential Temperature				Y	Y			
146	\$D0 \$04 \$78	Governor (Proportional) Gain %								Y
147	\$D0 \$04 \$79	Governor (Integral) Stability %								Y
148	\$D0 \$04 \$7A	Governor (Derivative) Compensation %								Y
149	\$D0 \$04 \$7B	Governor Aux. 1 (Proportional) Gain %								Y
150	\$D0 \$04 \$7C	Governor Aux. 1 (Integral) Stability %								Y
151	\$D0 \$04 \$7D	Governor Aux. 1 (Derivative) Compensation %								Y
152	\$D0 \$04 \$7E	Governor Aux. 2 (Proportional) Gain %								Y
153	\$D0 \$04 \$7F	Governor Aux. 2 (Integral) Stability %								Y
154	\$D0 \$04 \$80	Governor Aux. 2 (Derivative) Compensation %								Y
155	\$D0 \$04 \$81	Wastegate (Proportional) Gain %								Y
156	\$D0 \$04 \$82	Wastegate (Integral) Stability %								Y
157	\$D0 \$04 \$83	Wastegate (Derivative) Compensation %								Y
158	\$D0 \$04 \$DC	Maximum Choke Position								Y
159	\$D0 \$05 \$F1	Maximum Allowed Timing Retard								Y
160	\$D0 \$05 \$F2	Knock Threshold								Y
161	\$D0 \$05 \$F3	Ignition Timing Retard Step								Y
162	\$D0 \$05 \$F4	Ignition Timing Advance Step								Y
163	\$D1 \$00 \$66	Hydrax Oil Pressure Switch Status				Y	Y	Y		

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164	\$D1 \$00 \$A0	Oxygen Feedback Feature Enabled Status				Y				
165	\$D1 \$01 \$04	Oxygen Sensor Status				Y				
166	\$D1 \$01 \$20	Normal Stop Input Status				Y	Y	Y		
167	\$D1 \$01 \$3A	Automatic Power Balancing Mode (Tandem engines only)				Y	Y			
168	\$D1 \$01 \$67	Oxygen Feedback Enabled Status				Y				
169	\$D1 \$02 \$83	Crankcase Excess Oil Mist Switch Status							Y	
170	\$D1 \$02 \$93	Emissions Feedback Mode					Y	Y		
171	\$F0 \$13	System Battery Voltage	Y	Y	Y	Y	Y	Y		
172	\$F0 \$14	Cooldown Duration	Y	Y	Y	Y	Y	Y		
173	\$F0 \$16	Cold Mode Status		Y	Y					
174	\$F0 \$1B	Engine Prelube Duration		Y	Y					
175	\$F0 \$2A	Remote Start Status	Y	Y	Y					
176	\$F0 \$2C	Engine Coolant Level Status		Y	Y					
177	\$F0 \$8F	Engine Control Switch Position	Y	Y	Y					
178	\$F0 \$9C	Shutdown Notify Relay Status (Generator Set Only)		Y	Y					
179	\$F0 \$A6	Overspeed Verify Switch Position		Y	Y					
180	\$F0 \$A8	Remote Emergency Stop Switch Position		Y	Y					
181	\$F0 \$A9	Start up Mode Status		Y	Y					
182	\$F0 \$AA	Air Shutoff Status (Generator Set Only)		Y	Y					
183	\$F0 \$AC	Maximum Number of Crank Cycles		Y	Y					
184	\$F0 \$B0	Generator Phase Select	Y							
185	\$F0 \$B1	Remote Emergency Stop	Y	Y	Y					

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186	\$F0 \$B2	Cooldown Override Control	Y	Y	Y					
187	\$F0 \$B3	Generator AC Voltage Full Scale & Ext Potential TX Setpoint	Y							
188	\$F0 \$B4	Generator AC Current Full Scale Setpoint	Y							
189	\$F0 \$B5	Engine Prelube Status		Y	Y					
190	\$F0 \$B6	Engine Fuel Level Status			Y					
191	\$F0 \$C1	Acceleration Delay Time (Generator Set Only)		Y	Y					
192	\$F0 \$C2	Remote Throttle Override		Y	Y					
193	\$F0 \$E8	Engine Coolant Pump Pressure Status				Y	Y	Y		
194	\$F0 \$F2	ECM in Control (Marine Only)			Y					
195	\$F0 \$FD	Low Idle Switch Position			Y					
196	\$F1 \$08	Governor Aux. 1 Proportional Gain				Y		Y		
197	\$F1 \$09	Governor Aux. 1 Integrator Gain				Y		Y		
198	\$F1 \$0A	Governor Aux. 1 Derivative Gain				Y		Y		
199	\$F1 \$0B	Governor Gain Factor				Y		Y		
200	\$F1 \$0C	Governor Stability Factor				Y		Y		
201	\$F1 \$0D	Governor Compensation Factor				Y		Y		
202	\$F1 \$11	Percent Fuel Position					Y			
203	\$F1 \$12	Engine Status				Y		Y		
204	\$F1 \$13	Engine Operation				Y	Y	Y		
205	\$F1 \$15	Gas Fuel Correction Factor (in %)				Y	Y	Y		
206	\$F1 \$16	Wastegate Position Command					Y	Y		
207	\$F1 \$17	Choke Position Command					Y			
208	\$F1 \$18	Engine Load Factor (in %)		Y	Y	Y	Y	Y		
209	\$F1 \$19	Auxiliary Status				Y	Y	Y		
210	\$F1 \$1C	Air/Fuel Ratio Proportional Gain				Y		Y		
211	\$F1 \$1D	Air/Fuel Ratio Integrator Gain				Y		Y		
212	\$F1 \$4F	Backup ECM Status (Marine Only)			Y					
213	\$F1 \$89	Engine Power Derate %		Y	Y	Y		Y		
214	\$F1 \$92	Diagnostic Status Summary		Y						

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215	\$F1 \$D0	Jacket Water Outlet to Engine Oil Differential Temperature							Y	
216	\$F1 \$D3	Generator Phase A Power Factor Lead/Lag Status (GSC+)	Y							
217	\$F1 \$D4	Generator Phase B Power Factor Lead/Lag Status (GSC+)	Y							
218	\$F1 \$D5	Generator Phase C Power Factor Lead/Lag Status (GSC+)	Y							
219	\$F1 \$D6	Generator Average Power Factor Lead/Lag Status (GSC+)	Y							
220	\$F2 \$13	Remote Start Initiate	Y	Y	Y					
221	\$F2 \$4D	Shutdown Emergency Override Switch Status		Y	Y					
222	\$F2 \$4F	General Alarm Output Status/Override (Marine Only)			Y					
223	\$F2 \$8A	Governor Global Gain Adjustment		Y						
224	\$F2 \$CB	EPG Circuit Breaker Status (GSC+P only)	Y							
225	\$F2 \$CC	Remote Generator Synchronizer Control (GSC+P only)	Y							
226	\$F2 \$D6	Remote Synchronization Control Readiness (GSC+P only)	Y							
227	\$F2 \$D7	Generator Synchronizer Control Status (GSC+P only)	Y							
228	\$F4 \$0E	Engine Oil Filter Differential Pressure			Y	Y	Y			
229	\$F4 \$10	Effective Rack		Y	Y					
230	\$F4 \$11	Effective Rack Limit		Y	Y					
231	\$F4 \$12	Effective Smoke Rack Limit		Y	Y					
232	\$F4 \$15	Peak Air Filter Restriction			Y					
233	\$F4 \$17	Engine Status		Y	Y					
234	\$F4 \$19	Unfiltered Engine Oil Pressure (absolute)			Y					
235	\$F4 \$1C	Engine Fuel Pressure Differential			Y					
236	\$F4 \$1F	Unfiltered Engine Fuel Pressure (absolute)			Y					
237	\$F4 \$20	Engine Aftercooler Temperature			Y					
238	\$F4 \$30	Engine Cylinder #1 Exhaust Port Temperature							Y	Y
239	\$F4 \$31	Engine Cylinder #2 Exhaust Port Temperature							Y	Y

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240	\$F4 \$32	Engine Cylinder #3 Exhaust Port Temperature							Y	Y
241	\$F4 \$33	Engine Cylinder #4 Exhaust Port Temperature							Y	Y
242	\$F4 \$34	Engine Cylinder #5 Exhaust Port Temperature							Y	Y
243	\$F4 \$35	Engine Cylinder #6 Exhaust Port Temperature							Y	Y
244	\$F4 \$36	Engine Cylinder #7 Exhaust Port Temperature							Y	Y
245	\$F4 \$37	Engine Cylinder #8 Exhaust Port Temperature							Y	Y
246	\$F4 \$38	Engine Cylinder #9 Exhaust Port Temperature							Y	Y
247	\$F4 \$39	Engine Cylinder #10 Exhaust Port Temperature							Y	Y
248	\$F4 \$3A	Engine Cylinder #11 Exhaust Port Temperature							Y	Y
249	\$F4 \$3B	Engine Cylinder #12 Exhaust Port Temperature							Y	Y
250	\$F4 \$3C	Engine Cylinder #13 Exhaust Port Temperature							Y	Y
251	\$F4 \$3D	Engine Cylinder #14 Exhaust Port Temperature							Y	Y
252	\$F4 \$3E	Engine Cylinder #15 Exhaust Port Temperature							Y	Y
253	\$F4 \$3F	Engine Cylinder #16 Exhaust Port Temperature							Y	Y
254	\$F4 \$40	Right Exhaust Temperature (GSC+)	Y		Y					
255	\$F4 \$41	Left Exhaust Temperature (GSC+)	Y		Y					
256	\$F4 \$42	Generator RMS Voltage Phase A-B (GSC+)	Y							
257	\$F4 \$43	Generator RMS Voltage Phase B-C (GSC+)	Y							
258	\$F4 \$44	Generator RMS Voltage Phase C-A (GSC+)	Y							
259	\$F4 \$45	Generator RMS Voltage Phase A to Neutral (GSC+)	Y							
260	\$F4 \$46	Generator RMS Voltage Phase B to Neutral (GSC+)	Y							
261	\$F4 \$47	Generator RMS Voltage Phase C to Neutral (GSC+)	Y							
262	\$F4 \$48	Generator Phase A RMS Current (GSC+)	Y							
263	\$F4 \$49	Generator Phase B RMS Current (GSC+)	Y							
264	\$F4 \$4A	Generator Phase C RMS Current (GSC+)	Y							
265	\$F4 \$4B	Generator Frequency	Y							
266	\$F4 \$4C	Generator Set Relay Status	Y			Y	Y	Y		
267	\$F4 \$4D	GSC Relay Control	Y							
268	\$F4 \$4E	Actual Exhaust Oxygen				Y				
269	\$F4 \$4F	Desired Exhaust Oxygen				Y				
270	\$F4 \$5B	Acceleration Ramp Rate		Y	Y	Y	Y	Y		
271	\$F4 \$60	Engine Alarm Status	Y			Y	Y	Y		
272	\$F4 \$61	Generator Set Shutdown Status	Y					Y		
273	\$F4 \$62	GSC Spare Fault Alarm Status	Y							
274	\$F4 \$63	GSC Spare Fault Shutdown Status	Y							
275	\$F4 \$64	Generator Line-Line Voltage	Y							
276	\$F4 \$65	Generator Line Current	Y							
277	\$F4 \$66	Engine Overspeed Setpoint	Y							

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278	\$F4 \$67	Engine Oil Step Speed Setpoint	Y							
279	\$F4 \$68	Low Engine Oil Pressure at Rated Speed Setpoint	Y							
280	\$F4 \$69	Low Engine Oil Pressure at Idle Speed Setpoint	Y							
281	\$F4 \$6A	High Engine Coolant Temperature Setpoint	Y							
282	\$F4 \$6B	Low Engine Coolant Temperature Setpoint	Y							
283	\$F4 \$6C	GSC Configuration	Y							
284	\$F4 \$6D	Cooldown Period Time Remaining	Y	Y	Y	Y	Y	Y		
285	\$F4 \$8D	Engine Coolant Pressure (absolute)							Y	
286	\$F4 \$8F	Ether Usage		Y						
287	\$F4 \$A0	Exhaust Temperature		Y						
288	\$F4 \$A2	High Crankcase Pressure Shutdown Level						Y		
289	\$F4 \$C3	Generator Average RMS Voltage (GSC+)	Y							
290	\$F4 \$C4	Generator Total RMS Current (GSC+)	Y							
291	\$F4 \$C7	Generator Power (Percent of Rated, GSC+)	Y							
292	\$F4 \$C8	Generator Phase A Power Factor (GSC+)	Y							
293	\$F4 \$C9	Generator Phase B Power Factor (GSC+)	Y							
294	\$F4 \$CA	Generator Phase C Power Factor (GSC+)	Y							
295	\$F4 \$CB	Generator Average Power Factor (GSC+)	Y							
296	\$F4 \$CF	Generator Bus Frequency (GSC+P only)	Y							
297	\$F4 \$D0	Generator Bus RMS Voltage (GSC+P only)	Y							
298	\$F4 \$D1	Generator Set Control Output Status (GSC+)	Y							
299	\$F4 \$D2	Generator Set Shutdown Status - Extension #1 (GSC+)	Y							
300	\$F4 \$EA	Unfiltered Engine Oil Pressure (gauge)				Y	Y			
301	\$F5 \$08	Crankcase Air Pressure (absolute)		Y	Y					
302	\$F5 \$09	Crankcase Air Pressure			Y		Y			
303	\$F5 \$0A	Cooldown Engine Speed		Y	Y					
304	\$F5 \$0B	Cycle Crank Time Setpoint	Y	Y	Y					
305	\$F5 \$0C	Total Cycle Crank Time	Y			Y	Y	Y		
306	\$F5 \$0D	Crank Terminate Speed Setpoint	Y	Y	Y	Y	Y	Y		
307	\$F5 \$0E	Fuel Pressure (absolute)		Y	Y	Y	Y			
308	\$F5 \$0F	Filtered Engine Fuel Pressure (gauge)		Y	Y					

PID Comparison List

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Item No.	Parameter Identifier (PID)	Description	EMCP II	3400	3500	G3500B	G3600A	ADEM III	ICSM	ITSM
309	\$F5 \$10	Low Idle Speed		Y	Y	Y	Y	Y		
310	\$F5 \$11	Intake Manifold Air Temperature		Y	Y	Y	Y	Y		
311	\$F5 \$12	Actual Air/Fuel Ratio				Y	Y	Y		
312	\$F5 \$13	Desired Air/Fuel Ratio					Y			
313	\$F5 \$15	Percent Droop		Y	Y	Y	Y	Y		
314	\$F5 \$16	Actual Combustion Time					Y			
315	\$F5 \$17	Desired Combustion Time					Y			
316	\$F5 \$19	Air to Fuel Differential Pressure					Y			
317	\$F5 \$1A	Fuel Quality				Y	Y	Y		
318	\$F5 \$1B	Actual Air Pressure					Y			
319	\$F5 \$1C	Desired Air Pressure					Y			
320	\$F5 \$1D	Fuel Temperature		Y		Y	Y	Y		
321	\$F5 \$1E	Intake Manifold Air Flow								
322	\$F5 \$1F	Right Air Filter Restriction			Y					
323	\$F5 \$20	Left Air Filter Restriction			Y					
324	\$F5 \$24	Desired Exhaust Oxygen at Full Load				Y				
325	\$F5 \$25	Fuel Compensation Rate		Y	Y					
326	\$F5 \$3E	Engine Oil Temperature	Y	Y	Y	Y	Y	Y		
327	\$F5 \$57	Bus to Generator Phase Difference (GSC+P only)	Y							
328	\$F5 \$5A	Left Bank Average Combustion Time							Y	
329	\$F5 \$5B	Right Bank Average Combustion Time							Y	
330	\$F5 \$5C	Left Bank Average Exhaust Port Temperature							Y	Y
331	\$F5 \$5D	Right Bank Average Exhaust Port Temperature							Y	Y
332	\$F5 \$5E	Thermocouple #1 Temperature								Y
333	\$F5 \$5F	Thermocouple #2 Temperature								Y
334	\$F5 \$60	Thermocouple #3 Temperature								Y
335	\$F5 \$61	Thermocouple #4 Temperature								Y
336	\$F5 \$62	Thermocouple #5 Temperature								Y
337	\$F5 \$63	Thermocouple #6 Temperature								Y
338	\$F5 \$64	Thermocouple #7 Temperature								Y
339	\$F5 \$65	Thermocouple #8 Temperature								Y
340	\$F5 \$66	Thermocouple #9 Temperature								Y
341	\$F5 \$67	Thermocouple #10 Temperature								Y
342	\$F5 \$68	Thermocouple #11 Temperature								Y
343	\$F5 \$69	Thermocouple #12 Temperature								Y
344	\$F5 \$6A	Thermocouple #13 Temperature								Y

PID Comparison List

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Item No.	Parameter Identifier (PID)	Description	EMCP II	3400	3500	G3500B	G3600A	ADEM III	ICSM	ITSM
345	\$F5 \$6B	Thermocouple #14 Temperature								Y
346	\$F5 \$6C	Thermocouple #15 Temperature								Y
347	\$F5 \$6D	Thermocouple #16 Temperature								Y
348	\$F5 \$6E	Thermocouple #17 Temperature								Y
349	\$F5 \$6F	Thermocouple #18 Temperature								Y
350	\$F5 \$70	Thermocouple #19 Temperature								Y
351	\$F5 \$71	Thermocouple #20 Temperature								Y
352	\$F5 \$72	Thermocouple #21 Temperature								Y
353	\$F5 \$73	Thermocouple #22 Temperature								Y
354	\$F5 \$74	Thermocouple #23 Temperature								Y
355	\$F5 \$75	Thermocouple #24 Temperature								Y
356	\$F5 \$7B	Engine Overcrank Time				Y	Y	Y		
357	\$F5 \$7C	Second Desired Timing				Y	Y	Y		
358	\$F5 \$7E	Driven Equipment Delay Time				Y	Y	Y		
359	\$F5 \$7F	Engine Purge Cycle Time				Y	Y	Y		
360	\$F5 \$8E	Gas Fuel Flow						Y		
361	\$F5 \$93	Right Turbo Turbine Inlet Temperature							Y	Y
362	\$F5 \$94	Left Turbo Turbine Inlet Temperature							Y	Y
363	\$F5 \$95	Right Turbo Turbine Outlet Temperature							Y	Y
364	\$F5 \$96	Left Turbo Turbine Outlet Temperature							Y	Y
365	\$F5 \$97	Engine Average Exhaust Port Temperature					Y		Y	Y
366	\$F5 \$98	Engine Cylinder #17 Exhaust Port Temperature								Y
367	\$F5 \$99	Engine Cylinder #18 Exhaust Port Temperature								Y
368	\$F5 \$9A	Engine Cylinder #19 Exhaust Port Temperature								Y
369	\$F5 \$9B	Engine Cylinder #20 Exhaust Port Temperature								Y
370	\$F5 \$9C	Cylinder #1 Unfiltered Combustion Time							Y	
371	\$F5 \$9D	Cylinder #2 Unfiltered Combustion Time							Y	
372	\$F5 \$9E	Cylinder #3 Unfiltered Combustion Time							Y	
373	\$F5 \$9F	Cylinder #4 Unfiltered Combustion Time							Y	
374	\$F5 \$A0	Cylinder #5 Unfiltered Combustion Time							Y	
375	\$F5 \$A1	Cylinder #6 Unfiltered Combustion Time							Y	
376	\$F5 \$A2	Cylinder #7 Unfiltered Combustion Time							Y	
377	\$F5 \$A3	Cylinder #8 Unfiltered Combustion Time							Y	
378	\$F5 \$A4	Cylinder #9 Unfiltered Combustion Time							Y	
379	\$F5 \$A5	Cylinder #10 Unfiltered Combustion Time							Y	
380	\$F5 \$A6	Cylinder #11 Unfiltered Combustion Time							Y	
381	\$F5 \$A7	Cylinder #12 Unfiltered Combustion Time							Y	

PID Comparison List

Information compiled from Caterpillar Manuals: SEBU6874-04 March 2000 and REHS0806-02 April 2003

Item No.	Parameter Identifier (PID)	Description	EMCP II	3400	3500	G3500B	G3600A	ADEM III	ICSM	ITSM
382	\$F5 \$A8	Cylinder #13 Unfiltered Combustion Time							Y	
383	\$F5 \$A9	Cylinder #14 Unfiltered Combustion Time							Y	
384	\$F5 \$AA	Cylinder #15 Unfiltered Combustion Time							Y	
385	\$F5 \$AB	Cylinder #16 Unfiltered Combustion Time							Y	
386	\$F5 \$B1	Gas Specific Gravity				Y	Y	Y		
387	\$F5 \$BA	Inlet Manifold Air Pressure (absolute)				Y	Y	Y		
388	\$F5 \$C9	Requested Engine Exhaust Port Temperature					Y			
389	\$F5 \$E0	User Defined Switch Status		Y						
390	\$F6 \$1E	External Engine Power Derate Percentage				Y	Y	Y		
391	\$F6 \$2B	Active Warning Summary Status							Y	
392	\$F6 \$36	Fuel Rate Based Percent Engine Load Factor						Y		
393	\$F7 \$01	Cylinder #1 Filtered Combustion Time							Y	
394	\$F7 \$02	Cylinder #2 Filtered Combustion Time							Y	
395	\$F7 \$03	Cylinder #3 Filtered Combustion Time							Y	
396	\$F7 \$04	Cylinder #4 Filtered Combustion Time							Y	
397	\$F7 \$05	Cylinder #5 Filtered Combustion Time							Y	
398	\$F7 \$06	Cylinder #6 Filtered Combustion Time							Y	
399	\$F7 \$07	Cylinder #7 Filtered Combustion Time							Y	
400	\$F7 \$08	Cylinder #8 Filtered Combustion Time							Y	
401	\$F7 \$09	Cylinder #9 Filtered Combustion Time							Y	
402	\$F7 \$0A	Cylinder #10 Filtered Combustion Time							Y	
403	\$F7 \$0B	Cylinder #11 Filtered Combustion Time							Y	
404	\$F7 \$0C	Cylinder #12 Filtered Combustion Time							Y	
405	\$F7 \$0D	Cylinder #13 Filtered Combustion Time							Y	
406	\$F7 \$0E	Cylinder #14 Filtered Combustion Time							Y	
407	\$F7 \$0F	Cylinder #15 Filtered Combustion Time							Y	
408	\$F7 \$10	Cylinder #16 Filtered Combustion Time							Y	
409	\$F7 \$11	Engine Average Combustion Time					Y		Y	
410	\$F8 \$10	Engine Serial Number				Y	Y	Y		
411	\$F8 \$11	Electronic Control Module Serial Number		Y		Y	Y	Y		

PID Comparison List

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Item No.	Parameter Identifier (PID)	Description	EMCP II	3400	3500	G3500B	G3600A	ADEM III	ICSM	ITSM
412	\$F8 \$14	Personality Module Part Number	Y	Y	Y	Y	Y	Y		
413	\$F8 \$1A	Equipment ID		Y	Y	Y	Y	Y		
414	\$F8 \$1C	Personality Module Description				Y	Y	Y		
415	\$FA \$0D	Broadcast Diagnostic Table				Y	Y			
416	\$FA \$0E	Broadcast Event Table				Y	Y			
417	\$FC \$07	Warning Status		Y	Y					
418	\$FC \$08	Shutdown Status		Y	Y					
419	\$FC \$09	Engine Derate Status		Y	Y					
420	\$FC \$0D	Spare Outputs (GSC+)	Y							
421	\$FC \$0F	Generator Total Real Power	Y			Y	Y			
422	\$FC \$10	Relay Driver Module Relay State	Y							
423	\$FC \$11	Generator Phase A Real Power (GSC+)	Y							
424	\$FC \$12	Generator Phase B Real Power (GSC+)	Y							
425	\$FC \$13	Generator Phase C Real Power (GSC+)	Y							
426	\$FC \$14	Generator Phase A Reactive Power (GSC+)	Y							
427	\$FC \$15	Generator Phase B Reactive Power (GSC+)	Y							
428	\$FC \$16	Generator Phase C Reactive Power (GSC+)	Y							
429	\$FC \$17	Generator Total Reactive Power (GSC+)	Y							
430	\$FC \$18	Generator Phase A Apparent Power (GSC+)	Y							
431	\$FC \$19	Generator Phase B Apparent Power (GSC+)	Y							
432	\$FC \$1A	Generator Phase C Apparent Power (GSC+)	Y							
433	\$FC \$1B	Generator Total Apparent Power (GSC+)	Y							
434	\$FC \$1C	Generator Total kW-hours (GSC+)	Y							
435	\$FC \$1D	Generator Total kVAR-hours (GSC+)	Y							
436	\$FC \$1E	Generator Shutdown Status (GSC+)	Y							
437	\$FC \$1F	Generator Alarm Status (GSC+)	Y							
438	\$FC \$2D	Total Operating Hours				Y	Y	Y		
439	\$FC \$88	Engine Output Power						Y		