



Ultra Link Example Printouts

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Caterpillar

File name/date: caterpillar.DWN 8/4/2004 4:10:14 PM
 Record: 7 of 21 Protocol: J1708
 Unit I.D.: 00000001
 Vehicle Identification Number : 952686
 Engine Make*Model*Ser#: CTRPL*3406 E*1LW02518

PARAMETERS

Number	Description	Value
71	Idle Shutdown Timer Status	inactive
74	Maximum Road Speed Limit	71.00 mph
83	Road Speed Limit Status	inactive
84	Road Speed	0.00 mph
85	Cruise Control Status	inactive
86	Cruise Control Set Speed	0.00 mph
87	CruiseCntrl Hi Set Limit Speed	71.00 mph
88	CruiseCntrl Lo Set Limit Speed	30.00 mph
89	Power Takeoff Status	inactive
91	Percnt Accelerater Pedal Position	3.20 %
92	Percent Engine Load	13.50 %
100	Engine Oil Pressure	72.50 psi
102	Boost Pressure	0.00 in Hg
105	Intake Manifold Temperature	68.00 deg F
110	Engine Coolant Temperature	82.00 deg F
121	Engine Retarder Status	off
166	Rated Engine Power	475.00 hp
168	Battery Voltage	13.20 V
174	Fuel Temperature	66.00 deg F
175	Engine Oil Temperature	82.00 deg F
183	Fuel rate	4.41 lb/hr
184	Instantaneous Fuel Economy	0.00 US mpg
185	Average Fuel Economy	7.21 US mpg
187	PTO Set Speed	0.00 rpm
188	Idle Engine Speed	600.00 rpm
189	Rated Engine Speed	2120.00 rpm
190	Engine Speed	599.50 rpm
235	Total Idle Hours	6579.15 hrs
236	Total Idle Fuel Used	4974.63 US gal
245	Total Vehicle Distance	165443.90 mi
247	Total Engine Hours	11006.30 hrs
248	Total PTO Hours	1.75 hrs
250	Total Fuel Used	49374.75 US gal

TROUBLE CODES

Number	Description	Fault Mode Identifier	Status	#
P174	Fuel Temperature	Voltage > nrml or shorted hi	Inactv	1
P190	Engine Speed	Data valid but > normal	Inactv	1

Cummins

File name/date: cummins_1.DWN 10/3/2002 11:29:00 AM
 Record: 1 of 5 Protocol:J1708
 Unit I.D.: 00021345
 Vehicle Identification Number : 4V5JC2UE5YN870967
 Engine Make*Model*Ser# : CMMNS *ISM305V*34991436

PARAMETERS

Number	Description	Value
49	ABS Off-road Function Switch	off
52	Engine Intercooler Temperature	86.00 deg F
71	Idle Shutdown Timer Status	inactive
73	Auxiliary Water Pump Pressure	166.00 psi
74	Maximum Road Speed Limit	65.00 mph
83	Road Speed Limit Status	inactive
84	Road Speed	58.50 mph
85	Cruise Control Status	inactive
86	Cruise Control Set Speed	21.00 mph
87	CruiseCntrl Hi Set Limit Speed	65.00 mph
88	CruiseCntrl Lo Set Limit Speed	30.00 mph
89	Power Takeoff Status	active
91	Perct Accelerater Pedal Position	49.20 %
92	Percent Engine Load	49.00 %
100	Engine Oil Pressure	61.50 psi
102	Boost Pressure	28.25 in Hg
105	Intake Manifold Temperature	87.00 deg F
110	Engine Coolant Temperature	219.00 deg F
121	Engine Retarder Status	off
166	Rated Engine Power	350.00 hp
168	Battery Voltage	12.55 V
175	Engine Oil Temperature	243.00 deg F
182	Trip Fuel	147.25 US gal
183	Fuel rate	53.76 lb/hr
184	Instantaneous Fuel Economy	3.57 US mpg
185	Average Fuel Economy	4.60 US mpg
188	Idle Engine Speed	750.00 rpm
189	Rated Engine Speed	2200.00 rpm
190	Engine Speed	2346.50 rpm
235	Total Idle Hours	459.00 hrs
236	Total Idle Fuel Used	304.00 US gal
244	Trip Distance	3056.00 mi
245	Total Vehicle Distance	91234.00 mi
247	Total Engine Hours	2170.00 hrs
248	Total PTO Hours	249.00 hrs
250	Total Fuel Used	19411.50 US gal

TROUBLE CODES

Number	Description	Fault Mode Identifier	Status	#
P98	Engine Oil Level	Data valid but < normal	Active	1
Eng S33	Fan Clutch Outpt Device Drvr	Data errtic/intrmit/incorrect	Inactv	3
P108	Barometric Pressure	Abnormal rate of change	Inactv	1
P102	Boost Pressure	Voltage < nrml or shorted lo	Inactv	2
P84	Road Speed	Data errtic/intrmit/incorrect	Inactv	6

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Detroit

Example Print Out Of Data Uploaded From The Ultra-Link Diagnostic Tool: Detroit Engine

File name/date: detroit_1.DWN 1/8/2002 10:19:34 AM
Record: 1 of 1 Protocol: J1708
Unit I.D.: 00000023
Vehicle Identification Number :
Engine Make*Model*Ser# : DTDSC*6067GK60*06RE002651

PARAMETERS

Number	Description	Value
71	Idle Shutdown Timer Status	inactive
74	Maximum Road Speed Limit	85.00 mph
83	Road Speed Limit Status	inactive
84	Road Speed	0.00 mph
85	Cruise Control Status	inactive
86	Cruise Control Set Speed	0.00 mph
87	CruiseCntrl Hi Set Limit Speed	85.00 mph
88	CruiseCntrl Lo Set Limit Speed	20.00 mph
89	Power Takeoff Status	inactive
91	Percnt Accelerator Pedal Position	0.00 %
92	Percent Engine Load	10.00 %
93	Output Torque	0.00 lbf-ft
*15	Calculated Flywheel Power	0.00 hp
100	Engine Oil Pressure	35.00 psi
102	Boost Pressure	0.00 in Hg
106	Air Inlet Pressure	13.00 psi
110	Engine Coolant Temperature	177.00 deg F
111	Coolant Level	100.00 %
121	Engine Retarder Status	off
166	Rated Engine Power	485.00 hp
168	Battery Voltage	14.10 V
172	Air Inlet Temperature	81.75 deg F
174	Fuel Temperature	70.75 deg F
175	Engine Oil Temperature	170.50 deg F
182	Trip Fuel	3041.00 US gal
183	Fuel rate	1.21 lb/hr
184	Instantaneous Fuel Economy	0.00 US mpg
185	Average Fuel Economy	6.22 US mpg
188	Idle Engine Speed	650.00 rpm
189	Rated Engine Speed	2110.00 rpm
190	Engine Speed	649.75 rpm
235	Total Idle Hours	428.15 hrs
236	Total Idle Fuel Used	197.63 US gal
244	Trip Distance	18958.20 mi
245	Total Vehicle Distance	172768.30 mi
247	Total Engine Hours	3694.55 hrs
248	Total PTO Hours	74.95 hrs
250	Total Fuel Used	26942.75 US gal

TROUBLE CODES

Number	Description	Fault Mode Identifier	Status #
P111	Coolant Level	Data valid but < normal	Inactv 5
P102	Boost Pressure	Voltage < nrm1 or shorted lo	Inactv 84
Eng S250	SAE J1708(J1587) Data Link	Bad intllgnt device/cmpnent	Inactv 1
P111	Coolant Level	Voltage > nrm1 or shorted hi	Inactv 50
P91	Percnt Accelerator Pedal Pos	Voltage < nrm1 or shorted lo	Inactv 1

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International

File name/date: internation_4.DWN 1/24/2001 8:03:48 AM

Record: 4 of 4 Protocol:J1708

Unit I.D.: 00000INT

Vehicle Identification Number : 1HTMGABM2YA024232

Engine Make*Model*Ser# : INT *1997-T444*

PARAMETERS

Number	Description	Value
52	Engine Intercooler Temperature	42.00 deg F
71	Idle Shutdown Timer Status	inactive
74	Maximum Road Speed Limit	62.00 mph
83	Road Speed Limit Status	inactive
84	Road Speed	0.00 mph
85	Cruise Control Status	inactive
86	Cruise Control Set Speed	0.00 mph
87	CruiseCntrl Hi Set Limit Speed	62.00 mph
88	CruiseCntrl Lo Set Limit Speed	35.00 mph
89	Power Takeoff Status	inactive
91	Percnt Accelerater Pedal Position	12.00 %
92	Percent Engine Load	11.50 %
100	Engine Oil Pressure	50.50 psi
102	Boost Pressure	0.00 in Hg
110	Engine Coolant Temperature	87.00 deg F
111	Coolant Level	100.00 %
166	Rated Engine Power	175.00 hp
168	Battery Voltage	13.55 V
175	Engine Oil Temperature	69.75 deg F
183	Fuel rate	2.97 lb/hr
188	Idle Engine Speed	700.00 rpm
189	Rated Engine Speed	2300.00 rpm
190	Engine Speed	876.75 rpm
245	Total Vehicle Distance	12761.00 mi
247	Total Engine Hours	0.00 hrs
250	Total Fuel Used	0.00 US gal

TROUBLE CODES

Number	Description	Fault Mode Identifier	Status	#
ABS S254		Abnrml freq. plswdth. period	Inactv	1
ABS S253		Data valid but < normal	Inactv	1

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Mack

File name/date: mack_2.DWN 5/3/01 1:51:34 PM
 Record: 2 of 18 Protocol:J1708
 Unit I.D.: 000MACK
 Vehicle Identification Number : 1M1AA 18Y51W141 937
 Engine Make*Model*Ser# : **69417481 088.28

PARAMETERS

Number	Description	Value
52	Engine Intercooler Temperature	49.00 deg F
74	Maximum Road Speed Limit	100.00 mph
83	Road Speed Limit Status	inactive
84	Road Speed	0.00 mph
85	Cruise Control Status	inactive
86	Cruise Control Set Speed	0.00 mph
87	CruiseCntrl Hi Set Limit Speed	90.00 mph
88	CruiseCntrl Lo Set Limit Speed	35.00 mph
89	Power Takeoff Status	inactive
91	Percnt Accelerater Pedal Position	0.00 %
92	Percent Engine Load	0.00 %
96	Fuel Level	16.00 %
100	Engine Oil Pressure	0.00 psi
102	Boost Pressure	0.00 in Hg
105	Intake Manifold Temperature	65.00 deg F
110	Engine Coolant Temperature	72.00 deg F
111	Coolant Level	100.00 %
121	Engine Retarder Status	off
166	Rated Engine Power	460.00 hp
168	Battery Voltage	12.95 V
173	Exhaust Gas Temperature	195.00 deg F
174	Fuel Temperature	59.75 deg F
175	Engine Oil Temperature	49.25 deg F
177	Transmission Oil Temperature	240.00 deg F
182	Trip Fuel	14.25 US gal
183	Fuel rate	0.00 lb/hr
184	Instantaneous Fuel Economy	0.00 US mpg
185	Average Fuel Economy	4.95 US mpg
188	Idle Engine Speed	650.00 rpm
189	Rated Engine Speed	1800.00 rpm
190	Engine Speed	0.00 rpm
235	Total Idle Hours	44.10 hrs
236	Total Idle Fuel Used	23.13 US gal
244	Trip Distance	2698.90 mi
245	Total Vehicle Distance	2698.90 mi
247	Total Engine Hours	90.30 hrs
248	Total PTO Hours	0.00 hrs
250	Total Fuel Used	568.50 US gal

TROUBLE CODES

Number	Description	Fault Mode Identifier	Status #
Eng S231	SAE J1939 Data Link	Abnrml freq. plswdth, period.	Inactv 1

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Mercedes

File name/date: mercedes_16.DWN 7/25/2001 9:01:10 AM

Record: 16 of 16 Protocol:J1708

Unit I.D.: 0000BENZ

Vehicle Identification Number : 1FVABLCP21HJ22844

Engine Make*Model*Ser# : MRCBN*904*174204

PARAMETERS

Number	Description	Value
52	Engine Intercooler Temperature	50.00 deg F
84	Road Speed	0.00 mph
85	Cruise Control Status	inactive
86	Cruise Control Set Speed	0.00 mph
89	Power Takeoff Status	inactive
91	Percnt Accelerator Pedal Position	0.00 %
92	Percent Engine Load	0.00 %
93	Output Torque	0.00 lbf-ft
*15	Calculated Flywheel Power	0.00 hp
98	Engine Oil Level	0.00 %
100	Engine Oil Pressure	0.00 psi
102	Boost Pressure	0.00 in Hg
105	Intake Manifold Temperature	64.00 deg F
110	Engine Coolant Temperature	59.00 deg F
111	Coolant Level	70.00 %
121	Engine Retarder Status	off
168	Battery Voltage	12.30 V
174	Fuel Temperature	61.00 deg F
175	Engine Oil Temperature	59.00 deg F
182	Trip Fuel	0.00 US gal
183	Fuel rate	0.00 lb/hr
190	Engine Speed	0.00 rpm
235	Total Idle Hours	6.00 hrs
236	Total Idle Fuel Used	2.25 US gal
244	Trip Distance	0.00 mi
245	Total Vehicle Distance	505.90 mi
247	Total Engine Hours	44.00 hrs
250	Total Fuel Used	51.25 US gal

TROUBLE CODES

Number	Description	Fault Mode Identifier	Status	#
Caterpillar	Cummins	Detroit	International	
Mack	Mercedes	Renault	Volvo	

Renault

File name/date: renault_1.DWN 7/25/2001 03:12:04 PM
Record: 1 of 1 Protocol: J1708
Unit I.D.: 00000REN

PARAMETERS

Number	Description	Value
83	Road Speed Limit Status	inactive
84	Road Speed	0.00 mph
85	Cruise Control Status	inactive
91	Percnt Accelerater Pedal Position	0.00 %
92	Percent Engine Load	0.00 %
100	Engine Oil Pressure	0.00 psi
105	Intake Manifold Temperature	0.00 deg F
110	Engine Coolant Temperature	0.00 deg F
111	Coolant Level	0.00 %
168	Battery Voltage	13.30 V
183	Fuel rate	0.00 lb/hr
184	Instantaneous Fuel Economy	128.00 US mpg
185	Average Fuel Economy	7.20 US mpg
190	Engine Speed	0.00 rpm
235	Total Idle Hours	313.10 hrs
236	Total Idle Fuel Used	177.25 US gal
244	Trip Distance	192053.90 mi
245	Total Vehicle Distance	192053.90 mi
247	Total Engine Hours	4435.55 hrs
248	Total PTO Hours	9.10 hrs
250	Total Fuel Used	26714.25 US gal

TROUBLE CODES

Number	Description	Fault Mode Identifier	Status	#
P111	Coolant Level	Voltage > nrml or shorted hi	Active	1
P100	Engine Oil Pressure	Voltage < nrml or shorted lo	Active	1
P91	Percnt Accelerator Pedal Pos	Voltage < nrml or shorted lo	Active	1
P110	Engine Coolant Temperature	Voltage > nrml or shorted hi	Active	1
P105	Intake Manifold Pressure	Voltage > nrml or shorted hi	Active	1
P121	Engine Retarder Status	Voltage > nrml or shorted hi	Active	1
Eng S4	Injector Cylinder #4	Current < nrml or open circ	Active	1
ABS S3	Wheel Sensor ABS Axle 2 Left	Current < nrml or open circ	Active	1

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Volvo

File name/date: volvo.dwn 2/5/2003 9:36:16 AM
Record: 6 of 6 Protocol:J1708
Unit I.D.: 00009970
Vehicle Identification Number : D 121218
Engine Make*Model*Ser# : VOLVO*08192949P07*00012166:\$

PARAMETERS

Number	Description	Value
49	ABS Off-road Function Switch	off
74	Maximum Road Speed Limit	62.00 mph
83	Road Speed Limit Status	inactive
84	Road Speed	0.00 mph
92	Percent Engine Load	0.00 %
100	Engine Oil Pressure	0.00 psi
102	Boost Pressure	0.00 in Hg
110	Engine Coolant Temperature	115.00 deg F
111	Coolant Level	100.00 %
166	Rated Engine Power	286.00 hp
168	Battery Voltage	24.40 V
172	Air Inlet Temperature	3080.00 deg F
175	Engine Oil Temperature	116.00 deg F
177	Transmission Oil Temperature	467.00 deg F
183	Fuel rate	0.00 lb/hr
185	Average Fuel Economy	0.00 US mpg
188	Idle Engine Speed	0.00 rpm
189	Rated Engine Speed	1800.00 rpm
190	Engine Speed	0.00 rpm
235	Total Idle Hours	2186.85 hrs
245	Total Vehicle Distance	88648.90 mi
247	Total Engine Hours	7098.65 hrs
248	Total PTO Hours	11.60 hrs
250	Total Fuel Used	28658.00 US gal

TROUBLE CODES

Number	Description	Fault Mode Identifier	Status	#
P111	Coolant Level	Data valid but < normal	Inactv	35
Eng S64	Eng Speed Sensor #2	Voltage > nrml or shorted hi	Inactv	23
Eng S22	Timing Sensor	Voltage > nrml or shorted hi	Inactv	23
Tm S3	C3 Solenoid Valve	Current < nrml or open circ	Inactv	1
Tm S4	C4 Solenoid Valve	Current < nrml or open circ	Inactv	1
Tm S231		Bad intllgnt device/cmpnent	Inactv	17
P124	Transmission Oil Level	Data valid but < normal	Inactv	65
P127	Transmission Oil Pressure	Data valid but < normal	Inactv	97
Tm S4	C4 Solenoid Valve	Reserved	Active	63
Tm S1	C1 Solenoid Valve	Data valid but < normal	Active	63
P3		Current < nrml or open circ	Active	64
ABS S231		Abnormal update rate	Inactv	3

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