

HD OBD Vehicle Diagnostic Report

Vehicle Information

HD OBD/SAE J1939
VIN: --
Path: Autoscan general > Live data > Engine #1 > ALL >

Odometer Reading: --
License Plate: --
Sub Model: --

Customer Information

Name: --
Tel: --

Device information

Scanner: MaxiSys CV
Version: V6.80
Serial Number: V09G60107202

Engine #1 -- ALL

NO.	Name	Value	Unit
1	Transmission gear shift inhibit request	Take no action (leave function as is)	bit
2	Transmission torque converter lockup request	Take no action	bit
3	Disengage driveline request	Take no action	bit
4	Transmission reverse gear shift inhibit request	Take no action	bit
5	Disengage differential lock request - front axle 1	Take no action	bit
6	Disengage differential lock request - front axle 2	Take no action	bit
7	Disengage differential lock request - rear axle 1	Take no action	bit
8	Disengage differential lock request - rear axle 2	Take no action	bit
9	Disengage differential lock request - central	Take no action	bit
10	Disengage differential lock request - central front	Take no action	bit
11	Disengage differential lock request - central rear	Take no action	bit
12	Transmission load reduction inhibit request	Don't care/take no action	bit
13	Transmission mode 1	Take no action	bit
14	Transmission mode 2	Take no action	bit
15	Transmission mode 3	Take no action	bit
16	Transmission mode 4	Take no action	bit
17	Transmission auto-neutral (manual return) request	Don't care/take no action	bit
18	Transmission requested launch gear	Not available	bit
19	Transmission shift selector display mode switch	Not available	bit
20	Transmission mode 5	Take no action	bit
21	Transmission mode 6	Take no action	bit
22	Transmission mode 7	Take no action	bit
23	Transmission mode 8	Take no action	bit

24	SCR operator inducement override switch	Not available	bit
25	Heat exchanger debris purge inhibit switch	Not available	bit
26	Heat exchanger debris purge force switch	Not available	bit
27	Predictive cruise control enable switch	Not available	bit
28	Predictive cruise control deactivation request	Not available	bit
29	Engine stop-start disable command	Don't care/take no action	bit
30	Elevated engine speed allowed switch	Not available	bit
31	Aftertreatment regeneration engine speed allowed switch	Not available	bit
32	Transmission auto-neutral (manual return) enable switch	Not available	bit
33	Aftertreatment system enable command	Don't care/take no action	bit
34	Active shift console request	Don't care/take no action	bit
35	Engine idle management pending event override	Not available	bit
36	Vehicle hood switch	Not available	bit
37	Pending DTCs	0	count
38	All pending DTCs	0	count
39	MIL-on DTCs	0	count
40	Previously MIL-on DTCs	0	count
41	Permanent DTCs	1	count
42	NOx NTE deficiency area status	Outside area	bit
43	Manufacturer-specific NOx NTE limited testing region status	Outside area	bit
44	NOx NTE control area status	Outside control area	bit
45	PM NTE deficiency area status	Outside area	bit
46	Manufacturer-specific PM NTE limited testing region status	Outside area	bit
47	PM NTE control area status	Outside control area	bit
48	EI-AECD number	4	bit
49	EI-AECD engine hours timer 1	12	bit
50	EI-AECD engine hours timer 2	0	bit
51	Engine fan 1 requested percent speed	0.0	%
52	Auxiliary heater coolant pump request	Don't care/take no action	bit
53	Battery main switch hold request	Don't care/take no action	bit
54	Operator seat direction switch	Not available	bit
55	Seat belt switch	Not available	bit
56	Park brake command	Don't care/take no action	bit
57	Vehicle limiting speed governor decrement switch	Not available	bit
58	Vehicle limiting speed governor increment switch	Not available	bit
59	Vehicle limiting speed governor enable switch	Not available	bit
60	Diesel particulate filter regeneration inhibit switch	Not available	bit

61	Diesel particulate filter regeneration force switch	Not available	bit
62	Automatic gear shifting enable switch	Not available	bit
63	Engine automatic start enable switch	Not available	bit
64	Auxiliary heater mode request	Don't care/take no action	bit
65	Request engine zone heating	Don't care/take no action	bit
66	Request cab zone heating	Don't care/take no action	bit
67	ASR engine control active	Not available	bit
68	ASR brake control active	Not available	bit
69	Anti-lock braking (ABS) active	Not available	bit
70	EBS brake switch	Not available	bit
71	ABS off-road switch	Not available	bit
72	ASR off-road switch	Not available	bit
73	ASR hill holder switch	Not available	bit
74	Traction control override switch	Not available	bit
75	Accelerator interlock switch	Not available	bit
76	Engine derating switch	Not available	bit
77	Engine auxiliary shutdown switch	Not available	bit
78	Remote accelerator enable switch	Not available	bit
79	ABS fully operational	Not available	bit
80	EBS red warning signal	Take no action	bit
81	ABS/EBS amber warning signal (powered vehicle)	Take no action	bit
82	ATC/ASR information signal	Take no action	bit
83	Source address of controlling device for brake control	255	SA
84	Railroad mode switch	Not available	bit
85	Halt brake switch	Not available	bit
86	Trailer ABS status	Trailer ABS status information not available or parameter not supported	bit
87	Tractor-mounted trailer ABS warning signal	Take no action	bit
88	Accelerator pedal 1 low idle switch	Accelerator pedal 1 in low idle condition	bit
89	Accelerator pedal kickdown switch	Kick down passive	bit
90	Road speed limit status	Not active	bit
91	Accelerator pedal 2 low idle switch	Not available	bit
92	Accelerator pedal position 1	0.0	%
93	Engine percent load at current speed	32	%
94	Vehicle acceleration rate limit status	Not available	bit
95	Momentary engine maximum power enable feedback	Don't care	bit

96	DPF thermal management active	DPF thermal management is not active	bit
97	SCR thermal management active	SCR thermal management is not active	bit
98	Actual maximum available engine - percent torque	39.6	%
99	Estimated pumping - percent torque	2	%
100	Engine torque mode	No request	bit
101	Actual engine - percent torque (fractional)	0.250	%
102	Driver demand engine - percent torque	0	%
103	Actual engine - percent torque	15	%
104	Engine speed	699.875	rpm
105	Source address of controlling device for engine control	0	SA
106	Engine starter mode	Not available	bit
107	Engine demand - percent torque	15	%
108	Engine exhaust gas recirculation 1 mass flow rate	89.50	kg/h
109	Engine intake air mass flow rate	86.25	kg/h
110	Engine exhaust 1 gas sensor 1 power in range	Not available	bit
111	Aftertreatment 1 intake gas sensor 1 at temperature	Not available	bit
112	Engine exhaust 1 NOx 1 reading stable	Not available	bit
113	Aftertreatment 1 intake wide-range percent oxygen 1 reading stable	Not available	bit
114	Aftertreatment 1 intake gas sensor 1 heater preliminary FMI	31	binary
115	Aftertreatment 1 intake gas sensor 1 heater control	Heater off	bit
116	Engine exhaust 1 NOx sensor 1 preliminary FMI	31	binary
117	Engine exhaust 1 NOx sensor 1 self-diagnosis status	Not supported	bit
118	Aftertreatment 1 intake oxygen sensor preliminary FMI	31	binary
119	Aftertreatment 1 outlet gas sensor 1 power in range	Not available	bit
120	Aftertreatment 1 outlet gas sensor 1 at temperature	Not available	bit
121	Aftertreatment 1 outlet NOx 1 reading stable	Not available	bit
122	Aftertreatment 1 outlet wide-range percent oxygen 1 reading stable	Not available	bit
123	Aftertreatment 1 outlet NOx sensor 1 preliminary FMI	31	binary
124	Aftertreatment 1 outlet gas sensor 1 heater preliminary FMI	Heater off	bit
125	Aftertreatment 1 outlet gas sensor 1 heater control	31	binary
126	Aftertreatment 1 outlet NOx sensor 1 self-diagnosis status	Not supported	bit
127	Aftertreatment 1 outlet oxygen sensor 1 preliminary FMI	31	binary
128	Aftertreatment 1 SCR intermediate NH3 sensor preliminary FMI	31	binary
129	Aftertreatment 1 SCR intermediate NH3 reading stable	Not available	bit
130	Aftertreatment 1 SCR intermediate NH3 sensor power in range	Not available	bit
131	Aftertreatment 1 SCR intermediate NH3 sensor at temperature	Not available	bit

132	Aftertreatment 1 SCR intermediate NH3 sensor heater preliminary FMI	31	binary
133	Aftertreatment 1 SCR intermediate NH3 sensor heater control	Heater off or not available	bit
134	Operator inducement torque derating level 1	0	%
135	Operator inducement time to torque derating level 1	Parameter specific indicator	min
136	Operator inducement torque derating level 2	0	%
137	Operator inducement time to torque derating level 2	Parameter specific indicator	min
138	Operator inducement time to final inducement action	Parameter specific indicator	min
139	PEMS engine fuel mass flow rate	0.86	lb/s
140	Vehicle fuel rate	0.86	lb/s
141	Engine exhaust flow rate	0	kg/h
142	Engine exhaust pressure 1 (extended range)	49.750	psi
143	Soft top speed limit active	Not available	bit
144	Soft top ratio limit exceeded	Not available	bit
145	Soft top speed limit remaining distance	0	miles
146	Soft top speed limit reset distance	0	miles
147	Soft top speed limit remaining continuous interval distance	0	miles
148	Aftertreatment 1 total diesel exhaust fluid used	2049.5	gallon
149	Aftertreatment trip diesel exhaust fluid	0.00	gallon
150	Aftertreatment 1 SCR intermediate temperature	43.87500	°F
151	Aftertreatment 1 SCR intermediate temperature preliminary FMI	31	binary
152	Feedback engine fueling state	Not supported	bit
153	Engine fueling inhibit allowed	Not supported	bit
154	Engine fueling inhibit prevented reason	Not supported	bit
155	Source address of controlling device for fueling state	255	SA
156	Engine dual fuel mode	Not available	bit
157	Engine fueling inhibit prevented reason extension	Not supported	bit
158	Engine fueling inhibit request count	Not available	bit
159	Engine fueling desired request count	Not available	bit
160	Engine protection derating override status	Not available	bit
161	Remaining engine motoring time	0	s
162	Minimum engine motoring speed	0	rpm
163	Adaptive cruise control readiness status	Not available	bit
164	Predictive cruise control set speed offset status	Cruise control speed includes predictive cruise control set speed offset	bit
165	Source address of controlling device for disabling cruise control	255	SA

166	Source address of controlling device for pausing cruise control	255	SA
167	AEBS readiness state	Not available	bit
168	Cruise control driver cancellation status	Not available	bit
169	Cruise control speed	0.000	mph
170	Cruise control system command state	Not supported	bit
171	Engine friction percent torque at idle, point 1	5	%
172	Engine friction percent torque, point 2	7	%
173	Engine friction percent torque, point 3	6	%
174	Engine friction percent torque, point 4	7	%
175	Engine friction percent torque, point 5	7	%
176	Engine friction percent torque, point 6	7	%
177	Engine friction percent torque, point 7	12	%
178	Engine turbocharger wastegate actuator 2 preliminary FMI	31	binary
179	Engine turbocharger wastegate actuator 2 temperature status	Not available	bit
180	Engine turbocharger wastegate actuator 2 operation status	Not available	bit
181	Engine exhaust pressure regulator preliminary FMI	31	binary
182	Engine exhaust pressure regulator temperature status	Not available	bit
183	Engine exhaust pressure regulator control operation status	Not available	bit
184	Engine desired throttle valve 1 position	90.0	%
185	Engine throttle valve 1 preliminary FMI	31	binary
186	Engine throttle valve 1 temperature status	Not available	bit
187	Engine throttle valve 2 preliminary FMI	31	binary
188	Engine throttle valve 2 temperature status	Not available	bit
189	Engine fuel valve 1 preliminary FMI	31	binary
190	Engine fuel valve 1 temperature status	Not available	bit
191	Engine fuel valve 2 preliminary FMI	31	binary
192	Engine fuel valve 2 temperature status	Not available	bit
193	Engine throttle valve 1 operation status	Not available	bit
194	Engine throttle valve 2 operation status	Not available	bit
195	Engine fuel valve 1 operation status	Not available	bit
196	Engine fuel valve 2 operation status	Not available	bit
197	Commanded engine fuel rail pressure	109.26172	psi
198	Engine protect lamp command	Not available	bit
199	Engine amber warning lamp command	Lamp off	bit
200	Engine red stop lamp command	Lamp off	bit
201	OBD malfunction indicator lamp command	Lamp off	bit
202	Engine brake active lamp command	Lamp off	bit

203	Compression brake enable switch indicator lamp command	Lamp on	bit
204	Engine oil pressure low lamp command	Lamp off	bit
205	Engine coolant temperature high lamp command	Lamp off	bit
206	Engine coolant level low lamp command	Lamp off	bit
207	Engine idle management active lamp command	Not available	bit
208	Engine air filter restriction lamp command	Not available	bit
209	Engine fuel filter restricted lamp command	Not available	bit
210	Engine control module 1 ready for use lamp command	Not available	bit
211	Engine control module 2 ready for use lamp command	Not available	bit
212	Engine control module 3 ready for use lamp command	Not available	bit
213	Engine speed high lamp command	Not available	bit
214	Engine speed very high lamp command	Not available	bit
215	Vehicle acceleration rate limit lamp command	Not available	bit
216	Engine idle management pending event lamp command	Not available	bit
217	Engine stop-start automatic stop active lamp command	Not available	bit
218	Engine stop-start automatic start failed lamp command	Not available	bit
219	Engine stop-start enabled lamp command	Not available	bit
220	Engine oil temperature high lamp command	Not available	bit
221	Engine fuel temperature high lamp command	Not available	bit
222	Engine intercooler temperature high lamp command	Not available	bit
223	Engine air shutoff lamp command	Not available	bit
224	Engine trip fuel (high resolution)	3.718	gallon
225	Engine total fuel used (high resolution)	158973.531	gallon
226	Aftertreatment 1 outlet corrected NOx	0.00	ppm
227	Engine exhaust 1 corrected NOx	0.00	ppm
228	Aftertreatment 1 diesel oxidation catalyst intake temperature	101.78125	°F
229	Aftertreatment 1 diesel oxidation catalyst intake temperature preliminary FMI	31	binary
230	Aftertreatment 1 diesel oxidation catalyst outlet temperature preliminary FMI	31	binary
231	Aftertreatment 1 diesel oxidation catalyst differential pressure preliminary FMI	31	binary
232	Aftertreatment 1 SCR intake temperature	43.87500	°F
233	Aftertreatment 1 SCR intake temperature preliminary FMI	Not supported	bit
234	Aftertreatment 1 SCR outlet temperature	39.00000	°F
235	Aftertreatment 1 SCR outlet temperature preliminary FMI	Not supported	bit
236	Aftertreatment 1 diesel exhaust fluid doser fault suppression request	Not available	bit
237	Aftertreatment 1 diesel exhaust fluid doser heating mode request	Not available	bit
238	Aftertreatment 1 diesel exhaust fluid line heater 1	Not available	bit
239	Aftertreatment 1 diesel exhaust fluid line heater 2	Not available	bit

240	Aftertreatment 1 diesel exhaust fluid line heater 3	Not available	bit
241	Aftertreatment 1 diesel exhaust fluid line heater 4	Inactive	bit
242	Aftertreatment 1 diesel exhaust fluid tank heater command	0.0	%
243	Aftertreatment 1 diesel exhaust fluid line heater relay 1	Not available	bit
244	Aftertreatment 1 diesel exhaust fluid line heater relay 2	Not available	bit
245	Aftertreatment 1 diesel exhaust fluid line heater relay 3	Not available	bit
246	Aftertreatment 1 diesel exhaust fluid line heater 5	Not available	bit
247	Aftertreatment 1 diesel exhaust fluid line heater 6	Not available	bit
248	Aftertreatment 1 diesel exhaust fluid line heater 7	Not available	bit
249	Aftertreatment 1 diesel exhaust fluid line heater 8	Not available	bit
250	Aftertreatment 1 diesel exhaust fluid line heater 9	Not available	bit
251	Aftertreatment 1 diesel exhaust fluid line heater 10	Not available	bit
252	Aftertreatment SCR operator inducement active traveled distance	1	miles
253	Aftertreatment 1 diesel particulate filter 1 soot load percent	56	%
254	Aftertreatment 1 diesel particulate filter 1 time since last active regeneration	20788	s
255	Aftertreatment 1 diesel particulate filter soot load regeneration threshold	67.6125	%
256	Diesel particulate filter lamp command	OFF	bit
257	Diesel particulate filter active regeneration availability status	Not available	bit
258	Aftertreatment diesel particulate filter passive regeneration status	Not available	bit
259	Aftertreatment diesel particulate filter active regeneration status	Not active	bit
260	Aftertreatment diesel particulate filter status	Regeneration not needed	bit
261	Diesel particulate filter active regeneration inhibited status	Inhibited	bit
262	Diesel particulate filter active regeneration inhibited due to inhibit switch	Not inhibited	bit
263	Diesel particulate filter active regeneration inhibited due to clutch disengaged	Not inhibited	bit
264	Diesel particulate filter active regeneration inhibited due to service brake active	Not inhibited	bit
265	Diesel particulate filter active regeneration inhibited due to PTO active	Not inhibited	bit
266	Diesel particulate filter active regeneration inhibited due to accelerator pedal off idle	Not inhibited	bit
267	Diesel particulate filter active regeneration inhibited due to out of neutral	Not inhibited	bit
268	Diesel particulate filter active regeneration inhibited due to vehicle speed above allowed speed	Not inhibited	bit
269	Diesel particulate filter active regeneration inhibited due to parking brake not set	Not available	bit
270	Engine exhaust gas recirculation 1 cooler bypass actuator position	Not inhibited	bit
271	Diesel particulate filter active regeneration inhibited due to system fault active	Not inhibited	bit
272	Diesel particulate filter active regeneration inhibited due to system timeout	Not available	bit
273	Diesel particulate filter active regeneration inhibited due to temporary system lockout	Not available	bit
274	Diesel particulate filter active regeneration inhibited due to permanent system lockout	Not available	bit

275	Diesel particulate filter active regeneration inhibited due to engine not warmed up	Not inhibited	bit
276	Diesel particulate filter active regeneration inhibited due to vehicle speed below allowed speed	Inhibited	bit
277	Diesel particulate filter automatic active regeneration initiation configuration	Not available	bit
278	Exhaust system high temperature lamp command	OFF	bit
279	Diesel particulate filter active regeneration forced status	Not active	bit
280	Hydrocarbon doser purging enable	Not available	bit
281	Diesel particulate filter active regeneration inhibited due to low exhaust pressure	Not available	bit
282	Aftertreatment 1 diesel particulate filter conditions not met for active regeneration	Not available	bit
283	Diesel particulate filter active regeneration inhibited due to thresher	Not available	bit
284	Aftertreatment 1 diesel particulate filter outlet pressure 1	0.1	psi
285	Engine operating state	Running	bit
286	Fuel pump primer control	Unavailable	bit
287	Engine starter motor relay control	Don't care/take no action	bit
288	Time remaining in engine operating state	64255	s
289	Engine fuel shutoff vent control	Don't care/take no action	bit
290	Engine fuel shutoff 1 control	Don't care/take no action	bit
291	Engine fuel shutoff 2 control	Don't care/take no action	bit
292	Engine fuel shutoff valve leak test control	Don't care/take no action	bit
293	Engine oil priming pump control	unavailable	bit
294	Engine oil pre-heater control	Don't care/take no action	bit
295	Engine electrical system power conservation control	Unavailable	bit
296	Engine pre-heater control	Unavailable	bit
297	Engine coolant pump control	Don't care/take no action	bit
298	Engine controlled shutdown request	Don't care/take no action	bit
299	Engine emergency (immediate) shutdown indication	Don't care/take no action	bit
300	Engine cold ambient elevated idle status	Unavailable	bit
301	Engine exhaust gas recirculation 1 valve position	14.9675	%
302	Aftertreatment 1 diesel exhaust fluid concentration	0.00	%
303	Aftertreatment 1 diesel exhaust fluid temperature 2 preliminary FMI	31	binary
304	Aftertreatment 1 diesel exhaust fluid properties preliminary FMI	31	binary
305	Aftertreatment 1 diesel exhaust fluid property	Urea concentration too high	bit
306	Diesel exhaust fluid speed of sound	0	m/s
307	Aftertreatment 1 air system relay	Not available	bit
308	Aftertreatment 1 atomization air actuator	Not available	bit
309	Aftertreatment 1 purge air actuator	Not available	bit
310	Aftertreatment 1 air enable actuator	Not available	bit

311	Aftertreatment 1 fuel drain actuator	Not available	bit
312	Aftertreatment 1 ignition	Not available	bit
313	Aftertreatment 1 regeneration status	Not available	bit
314	Aftertreatment 1 fuel enable actuator	Not available	bit
315	Engine variable geometry turbocharger actuator #1	7.2	%
316	Engine turbocharger compressor bypass actuator 1 preliminary FMI	31	binary
317	Engine turbocharger compressor bypass actuator 1 temperature status	Not available	bit
318	Aftertreatment 1 diesel particulate filter differential pressure	0.2	psi
319	Aftertreatment 1 exhaust temperature 2 preliminary FMI	31	binary
320	Aftertreatment 1 diesel particulate filter differential pressure preliminary FMI	31	binary
321	Aftertreatment 1 diesel particulate filter intermediate temperature preliminary FMI	31	binary
322	Aftertreatment 1 diesel particulate filter outlet temperature	82.09375	°F
323	Aftertreatment 1 exhaust temperature 3 preliminary FMI	31	binary
324	Aftertreatment 1 diesel particulate filter outlet exhaust temperature preliminary FMI	31	binary
325	Aftertreatment 1 exhaust temperature 1	101.78125	°F
326	Aftertreatment 1 diesel particulate filter intake temperature	100.18750	°F
327	Aftertreatment 1 exhaust temperature 1 preliminary FMI	31	binary
328	Aftertreatment 1 diesel particulate filter intake temperature preliminary FMI	31	binary
329	Engine exhaust gas recirculation 1 valve 1 position error	0.724	%
330	Engine fuel mass flow rate	0	lb/s
331	Fuel type	Diesel - DSL	bit
332	Engine fuel isolation control	Don't care/take no action	bit
333	Accelerator pedal #1 channel 2	0.0	%
334	Engine start enable device 1	Start enable off	bit
335	Engine start enable device 2	Not available	bit
336	Engine start enable device 1 configuration	Electric intake air heater installed	bit
337	Engine start enable device 2 configuration	No start enable device 2 installed	bit
338	Engine cold start fuel igniter relay	Don't care/take no action	bit
339	Engine cold start fuel igniter relay feedback	Not available	bit
340	Engine exhaust gas recirculation 1 valve 1 control 1	14.2800	%
341	Engine Variable Geometry Turbocharger (VGT) air control shutoff valve	Not available	bit
342	Engine fuel control mode	Closed loop	bit
343	Engine variable geometry turbocharger 1 control mode	closed loop	bit
344	Engine Variable Geometry Turbocharger (VGT) 1 actuator position	7.6	%
345	Aftertreatment 1 diesel exhaust fluid tank volume	43.2	%

346	Aftertreatment 1 diesel exhaust fluid tank temperature 1	24	°F
347	Aftertreatment 1 diesel exhaust fluid tank level/volume preliminary FMI	31	binary
348	Aftertreatment diesel exhaust fluid tank low level indicator	OFF	bit
349	Aftertreatment 1 diesel exhaust fluid tank 1 temperature preliminary FMI	31	binary
350	Aftertreatment SCR operator inducement severity	Driver warning, low-level inducement, and severe inducement non-active	bit
351	Aftertreatment 1 diesel exhaust fluid tank heater	0.0	%
352	Aftertreatment 1 diesel exhaust fluid tank 1 heater preliminary FMI	31	binary
353	Engine charge air cooler 1 outlet temperature	25.25000	°F
354	Engine actual ignition timing	0.31	deg
355	Engine exhaust pressure 1	51.50	psi
356	Instantaneous estimated brake power	9.0	kW
357	Engine turbocharger 1 compressor intake temperature	26.59375	°F
358	Engine ECU temperature	27.96875	°F
359	Engine exhaust gas recirculation 1 temperature	46.65625	°F
360	Total ECU distance	2211081215.000	miles
361	Total ECU run time	12502.25	h
362	Total engine PTO governor fuel used	0.0	gallon
363	Trip average fuel rate	4.35	gal/h(US)
364	Trip drive fuel used	1.5	gallon
365	Trip PTO governor moving fuel used	0.0	gallon
366	Trip PTO governor non-moving fuel used	0.0	gallon
367	Trip vehicle idle fuel used	2.0	gallon
368	Trip cruise fuel used	0.0	gallon
369	Trip drive fuel economy	0.49414	mpg
370	Engine fan 1 estimated percent speed	0.0	%
371	Fan drive state	Fan off	bit
372	Engine rated power	246.0	kW
373	Engine rotation direction	Not available	bit
374	Engine intake manifold pressure control mode	Not available	bit
375	Total vehicle distance (high resolution)	419406410	m
376	Trip distance (high resolution)	710	m
377	Engine fuel 1 injector metering rail 1 pressure	108.48828	psi
378	Engine turbocharger 1 speed	14124	rpm
379	Engine turbocharger oil level switch	Not available	bit
380	Nominal friction - percent torque	8	%

381	Desired operating speed of engine	1300.000	rpm
382	Desired operating speed asymmetry adjustment of engine	125	Ratio
383	Estimated engine parasitic losses - percent torque	0	%
384	Aftertreatment 1 intake dew point	Not exceeded the dew point	bit
385	Aftertreatment 1 exhaust dew point	Not exceeded the dew point	bit
386	Aftertreatment 2 intake dew point	Not available	bit
387	Aftertreatment 2 exhaust dew point	Not available	bit
388	Trip distance	0.625	miles
389	Total vehicle distance	419406.375	miles
390	Engine speed at idle, point 1	700.000	rpm
391	Engine percent torque at idle, point 1	44	%
392	Engine speed at point 2	1400.000	rpm
393	Engine percent torque at point 2	83	%
394	Engine speed at point 3	1075.000	rpm
395	Engine percent torque at point 3	64	%
396	Engine speed at point 4	1400.000	rpm
397	Engine percent torque at point 4	83	%
398	Engine speed at point 5	1400.000	rpm
399	Engine percent torque at point 5	83	%
400	Engine speed at high idle, point 6	1400.000	rpm
401	Engine gain (Kp) of the end-speed governor	0	%/rpm
402	Engine reference torque	1785	Lb-ft
403	Engine maximum momentary override speed, point 7	2600.000	rpm
404	Engine maximum momentary override time limit	2.0	s
405	Engine requested speed control range lower limit	700	rpm
406	Engine requested speed control range upper limit	1400	rpm
407	Engine requested torque control range lower limit	0	%
408	Engine requested torque control range upper limit	83	%
409	Engine requested speed control range upper limit (extended range)	1400.000	rpm
410	Engine moment of inertia	0.70	kg*m2
411	Engine idle shutdown has shutdown engine	Not available	bit
412	Engine idle shutdown driver alert mode	Not available	bit
413	Engine idle shutdown timer override	Not available	bit
414	Engine idle shutdown timer state	Not available	bit
415	Engine idle shutdown timer function	Disabled in calibration	bit
416	A/C high pressure fan switch	Pressure normal	bit

417	Refrigerant low pressure switch	Not available	bit
418	Refrigerant high pressure switch	Not available	bit
419	Engine wait to start lamp	OFF	bit
420	Engine protection system has shutdown engine	No	bit
421	Engine protection system approaching shutdown	Not approaching	bit
422	Engine protection system timer override	Inactive	bit
423	Engine protection system timer state	Inactive	bit
424	Engine protection system configuration	Enabled in calibration	bit
425	Engine alarm acknowledge	Not available	bit
426	Engine alarm output command status	Not available	bit
427	Engine air shutoff command status	Not available	bit
428	Engine overspeed test	Not available	bit
429	Engine air shutoff status	Not available	bit
430	PTO shutdown has shutdown engine	Not available	bit
431	Coolant level engine protection shutdown status	Not available	bit
432	Engine oil pressure switch	Not available	bit
433	Engine total hours of operation	10822.15	h
434	Engine total revolutions	169898000	r
435	Seconds	15.00	s
436	Minutes	28	min
437	Hours	6	h
438	Month	3	months
439	Day	11.50	days
440	Year	2121	years
441	Total vehicle hours	0	h
442	Total Power Take-off (PTO) hours	0.00	h
443	Altitude	150.750	m
444	Engine trip fuel	3.5	gallon
445	Engine total fuel used	158973.5	gallon
446	Maximum vehicle speed limit	80	mph
447	Maximum vehicle speed limit (high resolution)	80.469	mph
448	Cruise control disable command support	Not available	bit
449	Cruise control resume command support	Not available	bit
450	Cruise control pause command support	Not available	bit
451	Cruise control set command support	Not available	bit
452	Powertrain adaptive cruise control type	Not available	bit
453	Engine coolant temperature	49	°F

454	Engine oil pressure 1	348	psi
455	Engine crankcase pressure 1	0.50	psi
456	Engine coolant level 1	100.0	%
457	Engine PTO governor enable switch	Not available	bit
458	Engine remote PTO governor preprogrammed speed control switch	Not available	bit
459	Engine remote PTO governor variable speed control switch	Not available	bit
460	Engine PTO governor set switch	Not available	bit
461	Engine PTO governor coast/decelerate switch	Not available	bit
462	Engine PTO governor resume switch	Not available	bit
463	Engine PTO governor accelerate switch	Not available	bit
464	Operator engine PTO governor memory select switch	Not available	bit
465	Remote PTO governor preprogrammed speed control switch #2	Not available	bit
466	Auxiliary input ignore switch	Not available	bit
467	Engine PTO governor disable switch	Not available	bit
468	Two speed axle switch	Not available	bit
469	Parking brake switch	Not available	bit
470	Cruise control pause switch	Take no action	bit
471	Park brake release inhibit request	Unavailable	bit
472	Wheel-based vehicle speed	0.000	mph
473	Cruise control active	Not available	bit
474	Cruise control enable switch	Not available	bit
475	Brake switch	Not available	bit
476	Clutch switch	Not available	bit
477	Cruise control set switch	Not available	bit
478	Cruise control coast (decelerate) switch	Not available	bit
479	Cruise control resume switch	Not available	bit
480	Cruise control accelerate switch	Not available	bit
481	PTO governor state	Not available	bit
482	Cruise control states	Not available	bit
483	Engine idle increment switch	Not available	bit
484	Engine idle decrement switch	Not available	bit
485	Engine diagnostic test mode switch	Not available	bit
486	Engine shutdown override switch	Not available	bit
487	Engine fuel rate	3.65	gal/h(US)
488	Engine instantaneous fuel economy	0.00000	mpg
489	Engine average fuel economy	0.19922	mpg
490	Engine throttle valve 1 position 1	90.0	%

491	Barometric pressure	97.5	psi
492	Ambient air temperature	25.18750	°F
493	Aftertreatment 1 diesel particulate filter intake pressure (use SPN 3609)	0	psi
494	Engine intake manifold #1 pressure	0	psi
495	Engine intake manifold 1 temperature	30	°F
496	Engine coolant filter differential pressure	0	psi
497	Battery potential / power input 1	13.60	V
498	Engine oil filter differential pressure	0	psi
499	Water in fuel indicator 1	No	bit
500	Operator shift prompt	Don't care/take no action	bit
501	Water in fuel indicator 2	Not available	bit
502	Engine overloaded indicator	Not available	bit
503	Driver warning system indicator status	OFF	bit
504	Emission control system operator inducement severity	Driver warning, low-level inducement, and severe inducement non-active	bit
505	Water in charge air duct after charge air cooler indicator	Not available	bit
506	Automatic start request inhibit indicator	Take no action	bit
507	Recommended number of gears to shift	0	count