



Shop:
Tel:
Address:

Report ID: MAXIA20220812
Creation Date: 2022-08-12



HD OBD Vehicle Diagnostic Report

License Plate: 25270590-2

Manufacturer: HD OBD

Year:

Model: SAE J1939

Sub Model:

Engine:

Path: HD OBD>SAE J1939>Live data

Client:

Phone Number:

VIN:

Mileage:

Color:

Status:

Engine #1 -- ALL

NO.	Name	Value	Units
1	SCR operator inducement override switch	Not available	bit
2	Heat exchanger debris purge inhibit switch	Not available	bit
3	Heat exchanger debris purge force switch	Not available	bit
4	Predictive cruise control enable switch	Not available	bit
5	Predictive cruise control deactivation request	Not available	bit
6	Engine stop-start disable command	Don't care/take no action	bit
7	Elevated engine speed allowed switch	Not available	bit
8	Aftertreatment regeneration engine speed allowed switch	Not available	bit
9	Predictive cruise control maximum positive offset	2.95	mph
10	Predictive cruise control maximum negative offset	-2.95	mph
11	Transmission auto-neutral (manual return) enable switch	Not available	bit
12	Aftertreatment system enable command	Don't care/take no action	bit
13	Active shift console request	Don't care / take no action	bit
14	Engine idle management pending event override	Not available	bit
15	Vehicle hood switch	Not available	bit



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16	Pending DTCs	0	count
17	All pending DTCs	0	count
18	MIL-on DTCs	2	count
19	Previously MIL-on DTCs	3	count
20	Permanent DTCs	2	count
21	NOx NTE deficiency area status	Outside area	bit
22	Manufacturer-specific NOx NTE limited testing region status	Outside area	bit
23	NOx NTE control area status	Outside control area	bit
24	PM NTE deficiency area status	Outside area	bit
25	Manufacturer-specific PM NTE limited testing region status	Outside area	bit
26	PM NTE control area status	Outside control area	bit
27	EI-AECD number	1	bit
28	EI-AECD engine hours timer 1	1415	bit
29	EI-AECD engine hours timer 2	0	bit
30	Engine fan 1 requested percent speed	0.0	%
31	Auxiliary heater coolant pump request	Don't care/take no action	bit
32	Battery main switch hold request	Don't care/take no action	bit
33	Operator seat direction switch	Not available	bit
34	Seat belt switch	Not available	bit
35	Park brake command	Don't care/take no action	bit
36	Vehicle limiting speed governor decrement switch	Not available	bit



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37	Vehicle limiting speed governor increment switch	Not available	bit
38	Vehicle limiting speed governor enable switch	Not available	bit
39	Diesel particulate filter regeneration inhibit switch	Not available	bit
40	Diesel particulate filter regeneration force switch	Not available	bit
41	Automatic gear shifting enable switch	Not available	bit
42	Engine automatic start enable switch	Not available	bit
43	Auxiliary heater mode request	Don't care/take no action	bit
44	Request engine zone heating	Don't care/take no action	bit
45	Request cab zone heating	Don't care/take no action	bit
46	ASR engine control active	Not available	bit
47	ASR brake control active	Not available	bit
48	Anti-lock braking (ABS) active	Not available	bit
49	EBS brake switch	Not available	bit
50	ABS off-road switch	Not available	bit
51	ASR off-road switch	Not available	bit
52	ASR hill holder switch	Not available	bit
53	Traction control override switch	Not available	bit
54	Accelerator interlock switch	Not available	bit
55	Engine derate switch	Not available	bit
56	Engine auxiliary shutdown switch	Not available	bit
57	Remote accelerator enable switch	Not available	bit



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58	ABS fully operational	Not available	bit
59	EBS red warning signal	Take no action	bit
60	ABS/EBS amber warning signal (powered vehicle)	Take no action	bit
61	ATC/ASR information signal	Take no action	bit
62	Source address of controlling device for brake control	255	SA
63	Railroad mode switch	Not available	bit
64	Halt brake switch	Not available	bit
65	Trailer ABS status	Trailer ABS status information not available or parameter not supported	bit
66	Tractor-mounted trailer ABS warning signal	Take no action	bit
67	Transmission driveline engaged	Driveline disengaged	bit
68	Transmission torque converter lockup engaged	Not available	bit
69	Transmission shift in process	Not available	bit
70	Transmission torque converter lockup transition in process	Not available	bit
71	Engine momentary overspeed enable	Take no action	bit
72	Progressive shift disable	Take no action	bit
73	Momentary engine maximum power enable	Not available	bit
74	Source address of controlling device for transmission control	255	SA
75	Accelerator pedal 1 low idle switch	Accelerator pedal 1 in low idle condition	bit
76	Accelerator pedal kickdown switch	Kickdown passive	bit
77	Road speed limit status	Not active	bit



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78	Accelerator pedal 2 low idle switch	Not available	bit
79	Accelerator pedal position 1	0.0	%
80	Engine percent load at current speed	0	%
81	Vehicle acceleration rate limit status	Limit not active	bit
82	Momentary engine maximum power enable feedback	Don't care	bit
83	DPF thermal management active	DPF thermal management is active	bit
84	SCR thermal management active	SCR thermal management is not active	bit
85	Actual maximum available engine - percent torque	40.0	%
86	Estimated pumping - percent torque	1	%
87	Engine torque mode	No request	bit
88	Actual engine - percent torque (fractional)	0.500	%
89	Driver's demand engine - percent torque	0	%
90	Actual engine - percent torque	0	%
91	Engine speed	0.000	rpm
92	Source address of controlling device for engine control	0	SA
93	Engine starter mode	Not available	bit
94	Engine demand - percent torque	0	%
95	Transmission actual gear ratio	16.000	Ratio
96	Transmission current gear	0	gear value
97	Engine exhaust gas recirculation 1 mass flow rate	0.00	kg/h



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98	Engine intake air mass flow rate	0.00	kg/h
99	Engine exhaust 1 gas sensor 1 power in range	Not available	bit
100	Aftertreatment 1 intake gas sensor 1 at temperature	Not available	bit
101	Engine exhaust 1 NOx 1 reading stable	Not available	bit
102	Aftertreatment 1 intake wide-range percent oxygen 1 reading stable	Not available	bit
103	Aftertreatment 1 intake gas sensor 1 heater preliminary FMI	31	binary
104	Aftertreatment 1 intake gas sensor 1 heater control	Heater off	bit
105	Engine exhaust 1 NOx sensor 1 preliminary FMI	31	binary
106	Engine exhaust 1 NOx sensor 1 self-diagnosis status	Not supported	bit
107	Aftertreatment 1 intake oxygen sensor preliminary FMI	31	binary
108	Aftertreatment 1 outlet gas sensor 1 power in range	Not available	bit
109	Aftertreatment 1 outlet gas sensor 1 at temperature	Not available	bit
110	Aftertreatment 1 outlet NOx 1 reading stable	Not available	bit
111	Aftertreatment 1 outlet wide-range percent oxygen 1 reading stable	Not available	bit
112	Aftertreatment 1 outlet NOx sensor 1 preliminary FMI	31	binary
113	Aftertreatment 1 outlet gas sensor 1 heater preliminary FMI	Heater off	bit
114	Aftertreatment 1 outlet gas sensor 1 heater control	31	binary
115	Aftertreatment 1 outlet NOx sensor 1 self-diagnosis status	Not supported	bit
116	Aftertreatment 1 outlet oxygen sensor 1 preliminary FMI	31	binary
117	Operator inducement torque derate level 1	0	%
118	Operator inducement time to torque derate level 1	Parameter specific indicator	min



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119	Operator inducement torque derate level 2	0	%
120	Operator inducement time to torque derate level 2	Parameter specific indicator	min
121	Operator inducement time to final inducement action	Parameter specific indicator	min
122	Cruise control adjusted maximum speed	85.13	mph
123	Engine external idle request feedback	Not available	bit
124	Source address of controlling device for setting cruise control	255	SA
125	Engine exhaust pressure 1 (extended range)	0.98	psi
126	Soft top speed limit active	Not available	bit
127	Soft top ratio limit exceeded	Not available	bit
128	Soft top speed limit remaining distance	0.00	miles
129	Soft top speed limit reset distance	0.00	miles
130	Soft top speed limit remaining continuous interval distance	0.00	miles
131	Aftertreatment 1 SCR intermediate temperature	76.44	°F
132	Aftertreatment 1 SCR intermediate temperature preliminary FMI	31	binary
133	Adaptive cruise control readiness status	ON	bit
134	Predictive cruise control set speed offset status	Not available	bit
135	Source address of controlling device for disabling cruise control	254	SA
136	Source address of controlling device for pausing cruise control	254	SA
137	AEBS readiness state	Not available	bit
138	Cruise control driver cancellation status	Not available	bit
139	Cruise control set speed (high resolution)	0.00	mph



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140	Cruise control speed	0.00	mph
141	Cruise control system command state	No cruise control system command	bit
142	Engine friction percent torque at idle, point 1	7	%
143	Engine friction percent torque, point 2	7	%
144	Engine friction percent torque, point 3	7	%
145	Engine friction percent torque, point 4	7	%
146	Engine friction percent torque, point 5	7	%
147	Engine friction percent torque, point 6	7	%
148	Engine friction percent torque, point 7	16	%
149	Engine desired throttle valve 1 position	100.0	%
150	Engine throttle valve 1 preliminary FMI	31	binary
151	Engine throttle valve 1 temperature status	Not available	bit
152	Engine throttle valve 2 preliminary FMI	31	binary
153	Engine throttle valve 2 temperature status	Not available	bit
154	Engine fuel valve 1 preliminary FMI	31	binary
155	Engine fuel valve 1 temperature status	Not available	bit
156	Engine fuel valve 2 preliminary FMI	31	binary
157	Engine fuel valve 2 temperature status	Not available	bit
158	Engine throttle valve 1 operation status	Not available	bit
159	Engine throttle valve 2 operation status	Not available	bit
160	Engine fuel valve 1 operation status	Not available	bit



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161	Engine fuel valve 2 operation status	Not available	bit
162	Commanded engine fuel rail pressure	6151.07	psi
163	Engine protect lamp command	Not available	bit
164	Engine amber warning lamp command	Lamp off	bit
165	Engine red stop lamp command	Lamp off	bit
166	OBD malfunction indicator lamp command	Lamp on	bit
167	Engine brake active lamp command	Lamp off	bit
168	Compression brake enable switch indicator lamp command	Lamp off	bit
169	Engine oil pressure low lamp command	Lamp off	bit
170	Engine coolant temperature high lamp command	Lamp off	bit
171	Engine coolant level low lamp command	Lamp off	bit
172	Engine idle management active lamp command	Not available	bit
173	Engine air filter restriction lamp command	Not available	bit
174	Engine fuel filter restricted lamp command	Not available	bit
175	Engine control module 1 ready for use lamp command	Not available	bit
176	Engine control module 2 ready for use lamp command	Not available	bit
177	Engine control module 3 ready for use lamp command	Not available	bit
178	Engine speed high lamp command	Not available	bit
179	Engine speed very high lamp command	Not available	bit
180	Vehicle acceleration rate limit lamp command	Not available	bit
181	Engine idle management pending event lamp command	Not available	bit
182	Engine stop-start automatic stop active lamp command	Not available	bit



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183	Engine stop-start automatic start failed lamp command	Not available	bit
184	Engine stop-start enabled lamp command	Not available	bit
185	Engine oil temperature high lamp command	Not available	bit
186	Engine fuel temperature high lamp command	Not available	bit
187	Engine intercooler temperature high lamp command	Not available	bit
188	Engine air shutoff lamp command	Not available	bit
189	Aftertreatment 1 diesel oxidation catalyst intake temperature	80.21	°F
190	Aftertreatment 1 diesel oxidation catalyst intake temperature preliminary FMI	31	binary
191	Aftertreatment 1 diesel oxidation catalyst outlet temperature preliminary FMI	31	binary
192	Aftertreatment 1 diesel oxidation catalyst differential pressure preliminary FMI	31	binary
193	Aftertreatment 1 SCR intake temperature	76.44	°F
194	Aftertreatment 1 SCR intake temperature preliminary FMI	Not supported	bit
195	Aftertreatment 1 SCR outlet temperature	77.17	°F
196	Aftertreatment 1 SCR outlet temperature preliminary FMI	Not supported	bit
197	Aftertreatment 1 diesel particulate filter 1 soot load percent	16	%
198	Aftertreatment 1 diesel particulate filter 1 ash load percent	24	%
199	Aftertreatment 1 diesel particulate filter 1 time since last active regeneration	0	s
200	Aftertreatment 1 diesel particulate filter soot load regeneration threshold	19.8725	%
201	Diesel particulate filter lamp command	OFF	bit
202	Diesel particulate filter active regeneration availability status	Not available	bit
203	Aftertreatment diesel particulate filter passive regeneration status	Not available	bit



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204	Aftertreatment diesel particulate filter active regeneration status	Regeneration needed - automatically initiated active regeneration imminent	bit
205	Aftertreatment diesel particulate filter status	Regeneration not needed	bit
206	Diesel particulate filter active regeneration inhibited status	Inhibited	bit
207	Diesel particulate filter active regeneration inhibited due to inhibit switch	Not inhibited	bit
208	Diesel particulate filter active regeneration inhibited due to clutch disengaged	Not inhibited	bit
209	Diesel particulate filter active regeneration inhibited due to service brake active	Not inhibited	bit
210	Diesel particulate filter active regeneration inhibited due to PTO active	Not inhibited	bit
211	Diesel particulate filter active regeneration inhibited due to accelerator pedal off idle	Not inhibited	bit
212	Diesel particulate filter active regeneration inhibited due to out of neutral	Not inhibited	bit
213	Diesel particulate filter active regeneration inhibited due to vehicle speed above allowed speed	Not inhibited	bit
214	Diesel particulate filter active regeneration inhibited due to parking brake not set	Not available	bit
215	Engine exhaust gas recirculation 1 cooler bypass actuator position	Not inhibited	bit
216	Diesel particulate filter active regeneration inhibited due to system fault active	Not inhibited	bit
217	Diesel particulate filter active regeneration inhibited due to system timeout	Not available	bit
218	Diesel particulate filter active regeneration inhibited due to temporary system lockout	Not available	bit
219	Diesel particulate filter active regeneration inhibited due to permanent system lockout	Not available	bit
220	Diesel particulate filter active regeneration inhibited due to engine not warmed up	Inhibited	bit
221	Diesel particulate filter active regeneration inhibited due to vehicle speed below allowed speed	Not inhibited	bit



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222	Diesel particulate filter automatic active regeneration initiation configuration	Not available	bit
223	Exhaust system high temperature lamp command	OFF	bit
224	Diesel particulate filter active regeneration forced status	Not active	bit
225	Hydrocarbon doser purging enable	Not available	bit
226	Diesel particulate filter active regeneration inhibited due to low exhaust pressure	Not available	bit
227	Aftertreatment 1 diesel particulate filter conditions not met for active regeneration	Not available	bit
228	Diesel particulate filter active regeneration inhibited due to thresher	Not available	bit
229	Aftertreatment 1 diesel particulate filter outlet pressure 1	0.00	psi
230	Engine operating state	Engine stopped	bit
231	Fuel pump primer control	Unavailable	bit
232	Engine starter motor relay control	Don't care/take no action	bit
233	Engine fuel shutoff vent control	Don't care / take no action	bit
234	Engine fuel shutoff 1 control	Don't care / take no action	bit
235	Engine fuel shutoff 2 control	Don't care / take no action	bit
236	Engine fuel shutoff valve leak test control	Don't care / take no action	bit
237	Engine oil priming pump control	unavailable	bit
238	Engine oil pre-heater control	Don't care / take no action	bit
239	Engine electrical system power conservation control	Unavailable	bit
240	Engine pre-heater control	Unavailable	bit
241	Engine coolant pump control	Don't care / take no action	bit



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242	Engine controlled shutdown request	Don't care / take no action	bit
243	Engine emergency (immediate) shutdown indication	Don't care / take no action	bit
244	Engine cold ambient elevated idle status	Unavailable	bit
245	Engine exhaust gas recirculation 1 valve position	0.0000	%
246	Aftertreatment 1 diesel exhaust fluid concentration	32.00	%
247	Aftertreatment 1 diesel exhaust fluid temperature 2 preliminary FMI	31	binary
248	Aftertreatment 1 diesel exhaust fluid properties preliminary FMI	31	binary
249	Aftertreatment 1 diesel exhaust fluid property	Diesel exhaust fluid is proper mixture	bit
250	Diesel exhaust fluid speed of sound	0	m/s
251	Engine variable geometry turbocharger actuator #1	25.2	%
252	Engine turbocharger compressor bypass actuator 1 preliminary FMI	31	binary
253	Engine turbocharger compressor bypass actuator 1 temperature status	Not available	bit
254	Aftertreatment 1 diesel particulate filter differential pressure	0.00	psi
255	Aftertreatment 1 exhaust temperature 2 preliminary FMI	31	binary
256	Aftertreatment 1 diesel particulate filter differential pressure preliminary FMI	31	binary
257	Aftertreatment 1 diesel particulate filter intermediate temperature preliminary FMI	31	binary
258	Aftertreatment 1 diesel particulate filter outlet temperature	78.41	°F
259	Aftertreatment 1 exhaust temperature 3 preliminary FMI	31	binary
260	Aftertreatment 1 diesel particulate filter outlet exhaust temperature preliminary FMI	31	binary
261	Aftertreatment 1 exhaust temperature 1	80.21	°F
262	Aftertreatment 1 diesel particulate filter intake temperature	78.58	°F



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263	Aftertreatment 1 exhaust temperature 1 preliminary FMI	31	binary
264	Aftertreatment 1 diesel particulate filter intake temperature preliminary FMI	31	binary
265	Engine start enable device 1	Not available	bit
266	Engine start enable device 2	Not available	bit
267	Engine start enable device 1 configuration	No start enable device 1 installed	bit
268	Engine start enable device 2 configuration	No start enable device 2 installed	bit
269	Engine cold start fuel igniter relay	Don't care/take no action	bit
270	Engine cold start fuel igniter relay feedback	Not available	bit
271	Aftertreatment 1 diesel exhaust fluid tank volume	64.8	%
272	Aftertreatment 1 diesel exhaust fluid tank temperature 1	73.40	°F
273	Aftertreatment 1 diesel exhaust fluid tank level/volume preliminary FMI	31	binary
274	Aftertreatment diesel exhaust fluid tank low level indicator	OFF	bit
275	Aftertreatment 1 diesel exhaust fluid tank 1 temperature preliminary FMI	31	binary
276	Aftertreatment SCR operator inducement severity	Driver warning, low-level inducement, and severe inducement non-active	bit
277	Aftertreatment 1 diesel exhaust fluid tank heater	0.0	%
278	Aftertreatment 1 diesel exhaust fluid tank 1 heater preliminary FMI	31	binary
279	Engine exhaust pressure 1	0.97	psi
280	Instantaneous estimated brake power	0.0	kW
281	Engine turbocharger 1 compressor intake temperature	77.68	°F



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282	Engine ECU temperature	80.94	°F
283	Engine exhaust gas recirculation 1 temperature	75.03	°F
284	Total engine PTO governor fuel used	4230.58	gallon
285	Trip average fuel rate	4.610	gal/h(U S)
286	Engine fan 1 estimated percent speed	0.0	%
287	Fan drive state	Fan off	bit
288	Total vehicle distance (high resolution)	688301740	m
289	Trip distance (high resolution)	688303160	m
290	Engine fuel 1 injector metering rail 1 pressure	0.00	psi
291	Engine turbocharger 1 speed	0	rpm
292	Engine turbocharger oil level switch	Not available	bit
293	Nominal friction - percent torque	1	%
294	Engine's desired operating speed	1300.000	rpm
295	Engine's desired operating speed asymmetry adjustment	125	Ratio
296	Estimated engine parasitic losses - percent torque	0	%
297	Aftertreatment 1 intake dew point	Not exceeded the dew point	bit
298	Aftertreatment 1 exhaust dew point	Not exceeded the dew point	bit
299	Aftertreatment 2 intake dew point	Not available	bit
300	Aftertreatment 2 exhaust dew point	Not available	bit
301	Trip distance	427691.73	miles
302	Total vehicle distance	427690.80	miles



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303	Engine speed at idle, point 1	600.000	rpm
304	Engine percent torque at idle, point 1	46	%
305	Engine speed at point 2	900.000	rpm
306	Engine percent torque at point 2	47	%
307	Engine speed at point 3	900.000	rpm
308	Engine percent torque at point 3	47	%
309	Engine speed at point 4	900.000	rpm
310	Engine percent torque at point 4	47	%
311	Engine speed at point 5	900.000	rpm
312	Engine percent torque at point 5	47	%
313	Engine speed at high idle, point 6	900.000	rpm
314	Engine gain (Kp) of the endspeed governor	0	%/rpm
315	Engine reference torque	2275.379	Lb-ft
316	Engine maximum momentary override speed, point 7	2500.000	rpm
317	Engine maximum momentary override time limit	6.0	s
318	Engine requested speed control range lower limit	600	rpm
319	Engine requested speed control range upper limit	900	rpm
320	Engine requested torque control range lower limit	0	%
321	Engine requested torque control range upper limit	47	%
322	Engine requested speed control range upper limit (extended range)	900.000	rpm
323	Engine moment of inertia	1.68	kg*m2
324	Engine idle shutdown has shutdown engine	Not available	bit



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325	Engine idle shutdown driver alert mode	Not available	bit
326	Engine idle shutdown timer override	Not available	bit
327	Engine idle shutdown timer state	Not available	bit
328	Engine idle shutdown timer function	Disabled in calibration	bit
329	A/C high pressure fan switch	Not available	bit
330	Refrigerant low pressure switch	Not available	bit
331	Refrigerant high pressure switch	Not available	bit
332	Engine wait to start lamp	Not available	bit
333	Engine protection system has shutdown engine	No	bit
334	Engine protection system approaching shutdown	Not approaching	bit
335	Engine protection system timer override	Inactive	bit
336	Engine protection system timer state	Inactive	bit
337	Engine protection system configuration	Enabled in calibration	bit
338	Engine alarm acknowledge	Not available	bit
339	Engine alarm output command status	Not available	bit
340	Engine air shutoff command status	Not available	bit
341	Engine overspeed test	Not available	bit
342	Engine air shutoff status	Not available	bit
343	PTO shutdown has shutdown engine	Not available	bit
344	Coolant level engine protection shutdown status	Not available	bit
345	Engine oil pressure switch	Not available	bit



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346	Engine total hours of operation	13847.45	h
347	Engine total revolutions	36711000	r
348	Total vehicle hours	0	h
349	Total power take off hours	2886.10	h
350	Engine trip fuel	63730.85	gallon
351	Engine total fuel used	63742.21	gallon
352	Engine coolant temperature	75.20	°F
353	Engine oil temperature 1	74.81	°F
354	Engine oil pressure 1	0.58	psi
355	Engine crankcase pressure 1	0.00	psi
356	Engine coolant level 1	100.0	%
357	Power take off set speed	625.000	rpm
358	Engine PTO governor enable switch	Not available	bit
359	Engine remote PTO governor preprogrammed speed control switch	Not available	bit
360	Engine remote PTO governor variable speed control switch	Not available	bit
361	Engine PTO governor set switch	Not available	bit
362	Engine PTO governor coast/decelerate switch	Not available	bit
363	Engine PTO governor resume switch	Not available	bit
364	Engine PTO governor accelerate switch	Not available	bit
365	Operator engine PTO governor memory select switch	Not available	bit
366	Remote PTO governor preprogrammed speed control switch #2	Not available	bit
367	Auxiliary input ignore switch	Not available	bit



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368	Engine pto governor disable switch	Not available	bit
369	Two speed axle switch	Not available	bit
370	Parking brake switch	Not available	bit
371	Cruise control pause switch	Take no action	bit
372	Park brake release inhibit request	Unavailable	bit
373	Wheel-based vehicle speed	0.00	mph
374	Cruise control active	Cruise control switched off	bit
375	Cruise control enable switch	Not available	bit
376	Brake switch	Not available	bit
377	Clutch switch	Not available	bit
378	Cruise control set switch	Not available	bit
379	Cruise control coast (decelerate) switch	Not available	bit
380	Cruise control resume switch	Not available	bit
381	Cruise control accelerate switch	Not available	bit
382	Cruise control set speed	0.00	mph
383	PTO governor state	Off/disabled	bit
384	Cruise control states	Off/disabled	bit
385	Engine idle increment switch	Not available	bit
386	Engine idle decrement switch	Not available	bit
387	Engine diagnostic test mode switch	OFF	bit
388	Engine shutdown override switch	Not available	bit



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389	Engine fuel rate	0.000	gal/h(U S)
390	Engine instantaneous fuel economy	0.000	mpg
391	Engine average fuel economy	6.712	mpg
392	Engine throttle valve 1 position 1	100.0	%
393	Barometric pressure	13.92	psi
394	Ambient air temperature	80.15	°F
395	Aftertreatment 1 diesel particulate filter intake pressure (use SPN 3609)	0.00	psi
396	Engine intake manifold #1 pressure	0.00	psi
397	Engine intake manifold 1 temperature	77.00	°F
398	Engine coolant filter differential pressure	0.00	psi
399	Battery potential / power input 1	11.85	V
400	Engine oil filter differential pressure	0	psi
401	Water in fuel indicator 1	No	bit
402	Operator shift prompt	Don't care/take no action	bit
403	Water in fuel indicator 2	Not available	bit
404	Engine overloaded indicator	Not available	bit
405	Driver warning system indicator status	OFF	bit
406	Emission control system operator inducement severity	Driver warning, low- level inducement, and severe inducement non- active	bit
407	Water in charge air duct after charge air cooler indicator	Not available	bit
408	Automatic start request inhibit indicator	Take no action	bit



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409	Recommended number of gears to shift	0	count
410	Engine fan 2 requested percent speed	53.2	
411	SCR operator inducement override switch	Not available	bit
412	Heat exchanger debris purge inhibit switch	Not available	bit
413	Heat exchanger debris purge force switch	Not available	bit
414	Predictive cruise control enable switch	Not available	bit
415	Predictive cruise control deactivation request	Not available	bit
416	Engine stop-start disable command	Don't care/take no action	bit
417	Elevated engine speed allowed switch	Not available	bit
418	Aftertreatment regeneration engine speed allowed switch	Not available	bit
419	Transmission auto-neutral (manual return) enable switch	Not available	bit
420	Aftertreatment system enable command	Don't care/take no action	bit
421	Active shift console request	Don't care / take no action	bit
422	Engine idle management pending event override	Not available	bit
423	Vehicle hood switch	Not available	bit
424	Pending DTCs	0	count
425	All pending DTCs	0	count
426	MIL-on DTCs	2	count
427	Previously MIL-on DTCs	3	count
428	Permanent DTCs	2	count
429	NOx NTE deficiency area status	Outside area	bit



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430	Manufacturer-specific NOx NTE limited testing region status	Outside area	bit
431	NOx NTE control area status	Outside control area	bit
432	PM NTE deficiency area status	Outside area	bit
433	Manufacturer-specific PM NTE limited testing region status	Outside area	bit
434	PM NTE control area status	Outside control area	bit
435	EI-AECD number	1	bit
436	EI-AECD engine hours timer 1	1415	bit
437	EI-AECD engine hours timer 2	0	bit
438	Engine turbocharger wastegate actuator 1 command	30.0400	
439	Applied vehicle speed limit (high resolution)	43.984	
440	Engine external idle request feedback	Not available	bit
441	Source address of controlling device for setting cruise control	255	SA
442	Adaptive cruise control readiness status	ON	bit
443	Predictive cruise control set speed offset status	Not available	bit
444	Source address of controlling device for disabling cruise control	254	SA
445	Source address of controlling device for pausing cruise control	254	SA
446	AEBS readiness state	Not available	bit
447	Cruise control driver cancellation status	Not available	bit
448	Cruise control set speed (high resolution)	0.00	mph
449	Cruise control speed	0.00	mph
450	Cruise control system command state	No cruise control system command	bit



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451	Engine friction percent torque at idle, point 1	7	%
452	Engine friction percent torque, point 2	7	%
453	Engine friction percent torque, point 3	7	%
454	Engine friction percent torque, point 4	7	%
455	Engine friction percent torque, point 5	7	%
456	Engine friction percent torque, point 6	7	%
457	Engine friction percent torque, point 7	16	%
458	Engine protect lamp command	Not available	bit
459	Engine amber warning lamp command	Lamp off	bit
460	Engine red stop lamp command	Lamp off	bit
461	OBD malfunction indicator lamp command	Lamp on	bit
462	Engine brake active lamp command	Lamp off	bit
463	Compression brake enable switch indicator lamp command	Lamp off	bit
464	Engine oil pressure low lamp command	Lamp off	bit
465	Engine coolant temperature high lamp command	Lamp off	bit
466	Engine coolant level low lamp command	Lamp off	bit
467	Engine idle management active lamp command	Not available	bit
468	Engine air filter restriction lamp command	Not available	bit
469	Engine fuel filter restricted lamp command	Not available	bit
470	Engine control module 1 ready for use lamp command	Not available	bit
471	Engine control module 2 ready for use lamp command	Not available	bit
472	Engine control module 3 ready for use lamp command	Not available	bit



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473	Engine speed high lamp command	Not available	bit
474	Engine speed very high lamp command	Not available	bit
475	Vehicle acceleration rate limit lamp command	Not available	bit
476	Engine idle management pending event lamp command	Not available	bit
477	Engine stop-start automatic stop active lamp command	Not available	bit
478	Engine stop-start automatic start failed lamp command	Not available	bit
479	Engine stop-start enabled lamp command	Not available	bit
480	Engine oil temperature high lamp command	Not available	bit
481	Engine fuel temperature high lamp command	Not available	bit
482	Engine intercooler temperature high lamp command	Not available	bit
483	Engine air shutoff lamp command	Not available	bit
484	Aftertreatment 1 diesel particulate filter 1 soot load percent	16	%
485	Aftertreatment 1 diesel particulate filter 1 ash load percent	24	%
486	Aftertreatment 1 diesel particulate filter 1 time since last active regeneration	0	s
487	Aftertreatment 1 diesel particulate filter soot load regeneration threshold	19.8725	%
488	Diesel particulate filter lamp command	OFF	bit
489	Diesel particulate filter active regeneration availability status	Not available	bit
490	Aftertreatment diesel particulate filter passive regeneration status	Not available	bit
491	Aftertreatment diesel particulate filter active regeneration status	Regeneration needed - automatically initiated active regeneration imminent	bit
492	Aftertreatment diesel particulate filter status	Regeneration not needed	bit



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493	Diesel particulate filter active regeneration inhibited status	Inhibited	bit
494	Diesel particulate filter active regeneration inhibited due to inhibit switch	Not inhibited	bit
495	Diesel particulate filter active regeneration inhibited due to clutch disengaged	Not inhibited	bit
496	Diesel particulate filter active regeneration inhibited due to service brake active	Not inhibited	bit
497	Diesel particulate filter active regeneration inhibited due to PTO active	Not inhibited	bit
498	Diesel particulate filter active regeneration inhibited due to accelerator pedal off idle	Not inhibited	bit
499	Diesel particulate filter active regeneration inhibited due to out of neutral	Not inhibited	bit
500	Diesel particulate filter active regeneration inhibited due to vehicle speed above allowed speed	Not inhibited	bit
501	Diesel particulate filter active regeneration inhibited due to parking brake not set	Not available	bit
502	Engine exhaust gas recirculation 1 cooler bypass actuator position	Not inhibited	bit
503	Diesel particulate filter active regeneration inhibited due to system fault active	Not inhibited	bit
504	Diesel particulate filter active regeneration inhibited due to system timeout	Not available	bit
505	Diesel particulate filter active regeneration inhibited due to temporary system lockout	Not available	bit
506	Diesel particulate filter active regeneration inhibited due to permanent system lockout	Not available	bit
507	Diesel particulate filter active regeneration inhibited due to engine not warmed up	Inhibited	bit
508	Diesel particulate filter active regeneration inhibited due to vehicle speed below allowed speed	Not inhibited	bit
509	Diesel particulate filter automatic active regeneration initiation configuration	Not available	bit
510	Exhaust system high temperature lamp command	OFF	bit
511	Diesel particulate filter active regeneration forced status	Not active	bit



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512	Hydrocarbon doser purging enable	Not available	bit
513	Diesel particulate filter active regeneration inhibited due to low exhaust pressure	Not available	bit
514	Aftertreatment 1 diesel particulate filter conditions not met for active regeneration	Not available	bit
515	Diesel particulate filter active regeneration inhibited due to thresher	Not available	bit
516	Engine turbocharger compressor bypass actuator 1 command	104.9525	
517	Engine variable geometry turbocharger actuator #1	25.2	%
518	Engine turbocharger compressor bypass actuator 2 command	120.9575	
519	Engine turbocharger compressor bypass actuator 1 preliminary FMI	31	binary
520	Engine turbocharger compressor bypass actuator 1 temperature status	Not available	bit
521	Engine start enable device 1	Not available	bit
522	Engine start enable device 2	Not available	bit
523	Engine start enable device 1 configuration	No start enable device 1 installed	bit
524	Engine start enable device 2 configuration	No start enable device 2 installed	bit
525	Engine cold start fuel igniter command	0.0	
526	Engine cold start fuel igniter relay	Don't care/take no action	bit
527	Engine cold start fuel igniter relay feedback	Not available	bit
528	Total engine PTO governor fuel used	4230.58	gallon
529	Trip average fuel rate	4.610	gal/h(U S)
530	Flexible fuel percentage	58.8800	
531	Engine speed at idle, point 1	600.000	rpm
532	Engine percent torque at idle, point 1	46	%



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533	Engine speed at point 2	900.000	rpm
534	Engine percent torque at point 2	47	%
535	Engine speed at point 3	900.000	rpm
536	Engine percent torque at point 3	47	%
537	Engine speed at point 4	900.000	rpm
538	Engine percent torque at point 4	47	%
539	Engine speed at point 5	900.000	rpm
540	Engine percent torque at point 5	47	%
541	Engine speed at high idle, point 6	900.000	rpm
542	Engine gain (Kp) of the endspeed governor	0	%/rpm
543	Engine maximum momentary override speed, point 7	2500.000	rpm
544	Engine maximum momentary override time limit	6.0	s
545	Engine requested speed control range lower limit	600	rpm
546	Engine requested speed control range upper limit	900	rpm
547	Engine requested torque control range lower limit	0	%
548	Engine requested torque control range upper limit	47	%
549	Engine requested speed control range upper limit (extended range)	900.000	rpm
550	Engine moment of inertia	1.68	kg*m2
551	Engine default torque limit	42268	
552	Support variable rate TSC1 message	750 ms transmission rate	
553	Engine total hours of operation	13847.45	h



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554	Engine total revolutions	36711000	r
555	Total vehicle hours	0	h
556	Total power take off hours	2886.10	h
557	Engine trip fuel	63730.85	gallon
558	Engine total fuel used	63742.21	gallon
559	Water in fuel indicator 1	No	bit
560	Operator shift prompt	Don't care/take no action	bit
561	Water in fuel indicator 2	Not available	bit
562	Engine overloaded indicator	Not available	bit
563	Driver warning system indicator status	OFF	bit
564	Emission control system operator inducement severity	Driver warning, low-level inducement, and severe inducement non-active	bit
565	Water in charge air duct after charge air cooler indicator	Not available	bit
566	Fuel supply estimated remaining distance	Reserved range for future indicator bits	
567	Automatic start request inhibit indicator	Take no action	bit
568	Recommended number of gears to shift	0	count