

## Vehicle information

2010 Jaguar XK (X150)

VIN: SAJKC43R1AMB38274

Mileage:

Diagnostic Time: 2019-05-17 21:11:53

Diagnostic Path: Automatic selection\Diagnosis\Control unit\PCM - Powertrain control module\Live data\

1. Oxygen sensor current, bank 1 - sensor 1 (wide range oxygen sensor)	4	uA
2. Oxygen sensor current, bank 2 - sensor 1 (wide range oxygen sensor)	0	uA
3. Equivalence ratio (lambda), bank 1 - sensor 1 (wide range oxygen sensor)	1	
4. Equivalence ratio (lambda), bank 2 - sensor 1 (wide range oxygen sensor)	1	
5. Oxygen sensor output voltage, bank 1 - sensor 2	0.00	V
6. Oxygen sensor output voltage, bank 2 - sensor 2	0.00	V
7. Short term fuel trim sensor 2 bank 1	0.00	%
8. Short term fuel trim sensor 2 bank 2	0.00	%
9. Variable valve timing output duty cycle - Intake valve - Bank 1	10.47	%
10. Variable valve timing output duty cycle - Intake valve - Bank 2	10.46	%
11. Variable valve timing output duty cycle - Exhaust valve - Bank 1	10.45	%
12. Variable valve timing output duty cycle - Exhaust valve - Bank 2	10.46	%
13. Actual variable valve timing position - Exhaust valve - Bank 1	120.0	°
14. Actual variable valve timing position - Intake valve - Bank 1	75.0	°
15. Actual variable valve timing position - Exhaust valve - Bank 2	120.0	°
16. Fuel rail pressure high range sensor	84.85	psi
17. Actual variable valve timing position - Intake valve - Bank 2	75.0	°
18. Target ignition angle	0.0	°
19. Engine off timer	979828.48	s

20. Fuel injector pulse widths - Injector 1	0	s
21. Fuel injector pulse widths - Injector 4	0	s
22. Fuel injector pulse widths - Injector 5	0	s
23. Fuel injector pulse widths - Injector 6	0	s
24. Fuel injector pulse widths - Injector 7	0	s
25. Fuel injector pulse widths - Injector 8	1	s
26. Fuel injector pulse widths - Injector 2	1	s
27. Fuel injector pulse widths - Injector 3	1	s
28. Knock control system applied retardation - Cylinder 1	0.0	°
29. Knock control system applied retardation - Cylinder 4	0.0	°
30. Knock control system applied retardation - Cylinder 5	0.0	°
31. Knock control system applied retardation - Cylinder 6	0.0	°
32. Knock control system applied retardation - Cylinder 7	0.0	°
33. Knock control system applied retardation - Cylinder 8	0.0	°
34. Knock control system applied retardation - Cylinder 2	0.0	°
35. Knock control system applied retardation - Cylinder 3	0.0	°
36. Idle speed - Target	1350	rpm
37. Torque loss calculation	40.621	nm
38. Engine load	1	rpm
39. Estimated torque from torque monitor (engine output)	-9.406	nm
40. Catalyst monitoring results - Bank 1	0.00	V
41. Catalyst monitoring results - Bank 2	0.00	V
42. Intake air flow - Target value	0.04	lb/s
43. Fuel pump duty ratio	28.52	%
44. Camshaft adaptation intake - Bank 1	73.4	°

45. Camshaft adaptation exhaust - Bank 1	115.5	°
46. Camshaft adaptation intake - Bank 2	71.6	°
47. Camshaft adaptation exhaust - Bank 2	116.9	°
48. Accelerator pedal - Stored maximum pedal depression	123.35	%
49. Crankshaft torque - Demanded	8.565	nm
50. Engine torque - Calculated	6.625	nm
51. Crankshaft torque - Estimate 1	-7.038	nm
52. Idle and accessory torque - Demanded	5.318	nm
53. Crankshaft torque - Estimate 2	2.462	nm
54. High pressure fuel supply pump duration	36.7	°
55. Fuel pump disablement status	Enabled	
56. Cooling fan module monitor	Off	
57. Brake switch 2 (central processor unit 1)	Off	
58. Brake switch 1 (central processor unit 1)	Off	
59. Park/neutral or clutch switch (central processor unit 1)	On	
60. Crank request input (central processor unit 1)	Off	
61. Ignition switch input (central processor unit 1)	On	
62. Starter motor relay monitor status	Off	
63. Purge monitor	Off	
64. Transmission control module malfunction turn signal lamp request	Off	
65. Camshaft profile switching monitor - Bank 2	Not activated	
66. Camshaft profile switching monitor - Bank 1	Not activated	
67. Engine input 1 - suspend switch pressed	Not pressed	
68. Engine input 1 - set-minus switch pressed	Not pressed	
69. Engine input 1 - gap-up switch pressed	Not pressed	

70. Engine input 1 - gap-down switch pressed	Not pressed
71. Engine input 1 - set-plus switch pressed	Not pressed
72. Engine input 1 - resume switch pressed	Not pressed
73. Engine input 1 - release switch pressed	Pressed
74. Engine input 1 - idle speed control active	On
75. Engine input 1 - idle jack active - catalyst heat request	On
76. Engine input 1 - idle jack active - battery charge request	Off
77. Engine input 1 - idle jack active - cooling request	Off
78. Engine input 1 - idle jack active - heating ventilation and air conditioning	Off
79. Engine input 2 - Intake manifold tuning valve 1 monitor	Off
80. Engine input 2 - E-box fan monitor	Off
81. Engine input 2 - Fuel pump driver module monitor	Off
82. Engine input 3 - ignition switch	On
83. Engine input 3 - brake switch	Off
84. Engine input 3 - Brake switch 2	Off
85. Engine input 3 - Park neutral/clutch switch	On
86. Engine input 3 - Early wake up signal	Never detected
87. Engine output 1 - fuel cut-off active	Off
88. Engine output 1 - Starter relay low side	On
89. Engine output 1 - starter relay	On
90. Engine output 1 - engine management system relay	On
91. Engine output 1 - E-box fan	Off
92. Engine output 1 - malfunction indicator warning lamp	Off
93. Engine output 1 - Intercooler water pump relay - Commanded	On
94. Engine output 1 - exhaust box actuator	Off

95. Engine output 1 - Intake manifold tuning valve 1	Off
96. Engine output 1 - Cold start monitor	Inactive
97. Engine output 1 - Low vapour petroleum strategy	Inactive
98. Engine output 1 - diagnostics module - tank leakage - test complete	Incomplete
99. Engine output 1 - diagnostics module - tank leakage - heater active	On
100. Engine output 1 - diagnostics module - tank leakage - pump active	Off
101. Engine output 1 - diagnostics module - tank leakage - changeover valve active	Off
102. Engine output 2 - injector 1B	Off
103. Engine output 2 - injector 3A	Off
104. Engine output 2 - injector 3B	Off
105. Engine output 2 - injector 4A	Off
106. Engine output 2 - injector 4B	Off
107. Engine output 2 - igniter 1A	Off
108. Engine output 2 - igniter 1B	Off
109. Engine output 2 - igniter 2A	Off
110. Engine output 2 - igniter 2B	Off
111. Engine output 2 - igniter 3A	Off
112. Engine output 2 - igniter 3B	Off
113. Engine output 2 - igniter 4A	Off
114. Engine output 2 - igniter 4B	Off
115. Engine output 2 - heated exhaust gas oxygen heater active - bank 2	Active
116. Engine output 2 - heated exhaust gas oxygen heater active - bank 1	Active
117. Engine output 2 - Oxygen sensor heater - Bank 2 - Sensor 1	On
118. Engine output 2 - Oxygen sensor heater - Bank 1 - Sensor 1	On
119. Engine output 2 - heated exhaust gas oxygen active - bank 2	Inactive

120. Engine output 2 - heated exhaust gas oxygen active - bank 1	Inactive	
121. Engine output 2 - universal heated exhaust gas oxygen active - bank 2	Active	
122. Engine output 2 - universal heated exhaust gas oxygen active - bank 1	Active	
123. Engine output 2 - kick down	Inactive	
124. Engine output 2 - purge active	Inactive	
125. Engine output 2 - catalyst warm-up complete	Incomplete	
126. Engine output 2 - closed loop control active - bank 2	Active	
127. Engine output 2 - closed loop control active - bank 1	Active	
128. Start authorisation status - Immobilizer - Target identification stored	Stored	
129. Start authorisation status - Immobilizer - Target identification verifier ok	True	
130. Start authorisation status - Immobilizer - Target identification valid transponder	True	
131. Start authorisation status - Immobilizer - Target identification challenge status	Enabled	
132. Number of trouble codes set due to diagnostic test	0	
133. Manifold absolute pressure sensor voltage	-30.71	V
134. Intake air temperature sensor voltage bank 2	2.38	V
135. Mass air flow sensor - Bank 1	-30.62	V
136. Boost absolute pressure - Raw sensor input voltage	0.56	V
137. Boost absolute pressure - Raw value	4.35	psi
138. Fuel pump monitor duty cycle - Measured	48.00	%
139. Engine coolant temperature sensor voltage	1.57	V
140. Barometric pressure sensor	3.65	V
141. Fuel rail pressure - Low range sensor	2.36	V
142. Fuel rail pressure sensor - High range sensor	1.81	V
143. Oxygen sensor heater duty cycle - Bank 1 sensor 1	32.94	%
144. Oxygen sensor heater duty cycle - Bank 1 sensor 2	54.90	%

145. Oxygen sensor heater duty cycle - Bank 2 sensor 1	30.59	%
146. Oxygen sensor heater duty cycle - Bank 2 sensor 2	54.12	%
147. Ambient air temperature sensor voltage	1.97	V
148. Fuel rail pressure - Desired	1450.38	psi
149. Engine oil level - Measured	1070	m
150. Charge air temperature voltage	2.38	V
151. Engine oil volume - Calculated	1.59	gallon
152. Sump oil temperature - Measured	98.60	°F
153. Electric fan pulse width modulation control - Commanded	9.02	%
154. Vehicle speed limiter - Set speed	158.45	mph
155. Throttle motor pulse width modulation signal - Commanded	3.14	%
156. Fuel pump control b (low pressure) - Desired	79.63	psi
157. Low volatility gasoline compensation	0.00	%
158. Engine coolant temperature - Sensor 2 voltage	2.93	V
159. Engine coolant temperature 2	73.40	°F
160. Mass air flow sensor 2	1.14	V
161. Air flow rate from mass air flow sensor - bank 1	10800	g/hr
162. Air flow rate from mass air flow sensor - bank 2	10800	g/hr
163. Intercooler outlet air temperature - Bank 1	109.40	°F
164. Pedal position sensor voltage - Sensor 1	-31.23	V
165. Pedal position sensor voltage - Sensor 2	-31.61	V
166. Throttle position sensor voltage - Sensor 1	-31.31	V
167. Throttle position sensor voltage - Sensor 2	-30.45	V
168. Intake air temperature sensor voltage	2.28	V
169. Diagnostics module tank leakage pump current	0.050	A

170. Diagnostics module tank leakage reference current	0	mA
171. Engine oil temperature	113.00	°F
172. Sensor supply voltage A	4.98	V
173. Calculated load value	32.16	%
174. Engine coolant temperature	134.60	°F
175. Short term fuel trim bank 1	5.47	%
176. Long term fuel trim bank 1	-3.91	%
177. Short term fuel trim bank 2	6.25	%
178. Long term fuel trim bank 2	-5.47	%
179. Manifold absolute pressure sensor	4.35	psi
180. Engine speed	621	rpm
181. Vehicle speed	0.00	mph
182. Ignition timing advance for cylinder 1	14.0	°
183. Intake air temperature	109.40	°F
184. Mass air flow	0.01	lb/s
185. Absolute throttle position	13.33	%
186. Distance travelled since the malfunction indicator lamp was activated	0.00	miles
187. Fuel rail pressure	823.81	psi
188. Fuel level input	21.96	%
189. Number of warm-ups since last diagnostic trouble code was clear	202	
190. Distance since diagnostic trouble codes cleared	3101.26	miles
191. Barometric pressure	14.65	psi
192. Catalyst temperature (bank 1, sensor 1)	1047.20	°F
193. Catalyst temperature (bank 1, sensor 2)	1047.20	°F
194. Control module voltage	14.55	V



195. Absolute load value	18.82	%
196. Commanded equivalence ratio	1	
197. Relative throttle position	1.57	%
198. Ambient air temperature	59.00	°F
199. Absolute throttle position B	30.98	%
200. Accelerator pedal position sensor - Circuit D	15.29	%
201. Accelerator pedal position sensor - Circuit E	14.90	%
202. Commanded throttle actuator control	20.00	%
203. Short term secondary oxygen sensor fuel trim - Bank 1	0	%
204. Long term secondary oxygen sensor fuel trim - Bank 1	0	%
205. Short term secondary oxygen sensor fuel trim - Bank 2	0	%
206. Long term secondary oxygen sensor fuel trim - Bank 2	0	%
207. Combined misfire information - Cylinder 1 - Misfire counts for catalyst damage	0	
208. Combined misfire information - Cylinder 2 - Misfire counts for emissions failure	0	
209. Combined misfire information - Cylinder 3 - Misfire counts for emissions failure	0	
210. Combined misfire information - Cylinder 4 - Misfire counts for emissions failure	0	
211. Combined misfire information - Cylinder 5 - Misfire counts for emissions failure	0	
212. Combined misfire information - Cylinder 6 - Misfire counts for emissions failure	0	
213. Combined misfire information - Cylinder 7 - Misfire counts for emissions failure	0	
214. Combined misfire information - Cylinder 8 - Misfire counts for emissions failure	0	
215. Combined misfire information - Firing cycle counter (catalyst)	433	
216. Combined misfire information - Firing cycle counter (emission)	2862	
217. Combined misfire information - Cylinder 2 - Misfire counts for catalyst damage	0	
218. Combined misfire information - Total misfire counts for catalyst damage during this trip	4	
219. Combined misfire information - Total misfire counts for emissions failure during this trip	4	

220. Combined misfire information - Engine speed limit for completed adaptation's	256	rpm
221. Combined misfire information - Catalyst damage output counter - Cylinder 1	0	
222. Combined misfire information - Catalyst damage output counter - Cylinder 2	0	
223. Combined misfire information - Catalyst damage output counter - Cylinder 3	0	
224. Combined misfire information - Catalyst damage output counter - Cylinder 4	0	
225. Combined misfire information - Cylinder 3 - Misfire counts for catalyst damage	0	
226. Combined misfire information - Catalyst damage output counter - Cylinder 5	0	
227. Combined misfire information - Catalyst damage output counter - Cylinder 6	0	
228. Combined misfire information - Catalyst damage output counter - Cylinder 7	0	
229. Combined misfire information - Catalyst damage output counter - Cylinder 8	0	
230. Combined misfire information - Number of catalyst damage judgments	9	
231. Combined misfire information - Number of emissions fail judgments	1	
232. Combined misfire information - Fuel cut-off execution flag - Bank 2	False	
233. Combined misfire information - Fuel cut-off execution flag - Bank 1	False	
234. Combined misfire information - Adaptive condition flag	False	
235. Combined misfire information - Misfire judgement execution flag	False	
236. Combined misfire information - Misfire measurement period indicator	0	
237. Combined misfire information - Cylinder 4 - Misfire counts for catalyst damage	0	
238. Combined misfire information - Cylinder 5 - Misfire counts for catalyst damage	0	
239. Combined misfire information - Cylinder 6 - Misfire counts for catalyst damage	0	
240. Combined misfire information - Cylinder 7 - Misfire counts for catalyst damage	0	
241. Combined misfire information - Cylinder 8 - Misfire counts for catalyst damage	0	
242. Combined misfire information - Cylinder 1 - Misfire counts for emissions failure	0	
243. High pressure pump control	Pump control pump 1 & 2 - On	

244. Crash status

Crash status cleared

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