

Vehicle Diagnostic Report

1NZFXE

Printed By: Default User(1)

11/11/2017 12:42:35 AM

Diagnostic Trouble Code Report

Engine and ECT(1 of 1)

DTC Monitors are Complete.

MIL: ON

Code	Description	Current	Pending	History	Permanent	Summary	Freeze Frame
P0420	Catalyst System Efficiency Below Threshold (Bank 1)	X	X	X		Icon B	Y

Freeze Frame Data Report

P0420(1 of 2)

Parameter	Value					Unit
	-3	-2	-1	0	1	
Vehicle Speed	75	73	72	74	74	km/h
Engine Speed	1282	1873	2489	2114	1632	rpm
Calculate Load	85.0	81.1	82.7	65.4	67.4	%
Vehicle Load	42.7	47.4	49.4	31.7	39.6	%
MAF	8.14	13.17	18.28	10.06	9.65	gm/sec
Atmosphere Pressure	93	93	93	93	93	kPa(abs)
Coolant Temp	85	85	85	85	85	C
Intake Air	27	27	27	27	27	C
Ambient Temperature	26	26	26	26	26	C
Engine Run Time	439	440	441	441	441	s
Initial Engine Coolant Temp	29.3	29.3	29.3	29.3	29.3	C
Initial Intake Air Temp	31.8	31.8	31.8	31.8	31.8	C
Battery Voltage	13.5	13.5	13.6	13.6	13.6	V
Accelerator Idle Position	OFF	OFF	OFF	OFF	OFF	
Throttle Sensor Volt %	24.3	29.8	31.3	23.1	23.5	%
Throttl Sensor #2 Volt %	60.3	67.0	68.6	58.8	59.2	%
ST1	OFF	OFF	OFF	OFF	OFF	
System Guard	ON	ON	ON	ON	ON	
Open Side Malfunction	OFF	OFF	OFF	OFF	OFF	
Throttle Idle Position	OFF	OFF	OFF	OFF	OFF	
Throttle Require Position	1.2	1.4	1.5	1.1	1.1	V
Throttle Sensor Position	7.0	12.1	14.1	5.8	5.8	%
Throttle Position No.1	1.2	1.4	1.5	1.1	1.1	V
Throttle Position No.2	3.0	3.3	3.4	2.9	2.9	V
Throttle Position Command	1.2	1.4	1.5	1.1	1.1	V
Throttle Sens Open Pos #1	0.8	0.8	0.8	0.8	0.8	V
Throttle Sens Open Pos #2	2.0	2.0	2.0	2.0	2.0	V
Throttle Sens Open #1(AD)	1.2	1.4	1.5	1.1	1.1	V
Throttle Motor	ON	ON	ON	ON	ON	
Throttle Motor Current	0.4	1.1	0.3	0.3	0.9	A
Throttle Motor DUTY	24.3	29.8	31.3	23.1	23.5	%
Throttle Motor Duty (Open)	3	16	7	6	13	%
Throttle Motor Duty (Close)	0	0	0	0	0	%
Throttle Fully Close Learn	0.7	0.7	0.7	0.7	0.7	V
ETCS Actuator Power	ON	ON	ON	ON	ON	
+BM Voltage	13.6	13.6	13.6	13.6	13.6	
Actuator Power Supply	ON	ON	ON	ON	ON	
Electromagnetic Clutch	OFF	OFF	OFF	OFF	OFF	
Fail Safe Drive	OFF	OFF	OFF	OFF	OFF	
Fail Safe Drive (Main CPU)	OFF	OFF	OFF	OFF	OFF	
Injector (Port)	4.73	5.76	6.65	4.48	4.22	ms
Injection Volum (Cylinder1)	0.167	0.167	0.212	0.212	0.163	ml
Fuel Pump/Speed Status	ON	ON	ON	ON	ON	
Evap Purge Flow	5.8	3.6	2.6	2.6	3.2	%
Purge Density Learn Value	-2.063	-2.063	-2.063	-2.063	-2.063	
EVAP Purge VSV	ON	ON	ON	ON	ON	

Freeze Frame Data Report
P0420(2 of 2)

Parameter	Value					Unit
	-3	-2	-1	0	1	
Target Air-Fuel Ratio	1.033	0.965	0.965	1.033	0.994	
AF Lambda B1S1	1.045	1.018	1.025	0.908	0.878	
AFS Voltage B1S1	3.51	3.41	3.41	2.64	2.51	V
O2S B1S2	0.29	0.11	0.07	0.82	0.87	V
O2S Impedance B1S2	174.42	173.78	174.42	175.72	175.40	ohm
Short FT B1S1	-1.6	7.8	8.5	0.0	-4.0	%
Long FT B1S1	0.7	3.1	3.9	3.1	1.5	%
Total FT #1	0.007	0.007	0.007	0.007	0.007	
Fuel System Status #1	CL	CL	CL	CL	CL	
Fuel System Status #2	Unused	Unused	Unused	Unused	Unused	
IGN Advance	14.5	19.5	20.0	23.0	20.0	deg
Knock Feedback Value	-3.0	-3.3	-4.7	-4.4	-4.4	deg (CA)
Knock Correct Learn Value	20.8	20.8	22.2	22.2	22.2	deg (CA)
VVT Control Status #1	ON	ON	ON	ON	ON	
Catalyst Temp B1S1	596.2	596.4	596.4	596.4	595.2	C
Catalyst Temp B1S2	470.2	470.2	470.2	470.2	470.1	C
Closed Throttle Position SW	OFF	OFF	OFF	OFF	OFF	
Engine Oil Pressure SW	OFF	OFF	OFF	OFF	OFF	
Time after DTC Cleared	35	35	35	35	35	min
Distance from DTC Cleared	29	29	29	29	29	km
Warmup Cycle Cleared DTC	2	2	2	2	2	
TC and TE1	OFF	OFF	OFF	OFF	OFF	
Ignition Trig. Count	0	0	0	0	0	
Cylinder #1 Misfire Count	0	0	0	0	0	
Cylinder #2 Misfire Count	0	0	0	0	0	
Cylinder #3 Misfire Count	0	0	0	0	0	
Cylinder #4 Misfire Count	0	0	0	0	0	
All Cylinders Misfire Count	0	0	0	0	0	
Misfire RPM	0	0	0	0	0	rpm
Misfire Load	0.00	0.00	0.00	0.00	0.00	g/rev
Misfire Margin	70.31	46.09	46.09	46.09	40.62	%
Electric Fan Motor	OFF	OFF	OFF	OFF	OFF	
Idle Fuel Cut	OFF	OFF	OFF	OFF	OFF	
FC TAU	OFF	OFF	OFF	OFF	OFF	
Requested Engine Torque	8.75	18.50	19.75	9.25	9.25	kW
HV Target Engine Speed	1275	1825	2325	1950	1525	rpm
Actual Engine Torque	65	22	94	111	111	Nm
Estimated Engine Torque	54	58	68	44	44	Nm
Engine Run Time	255	255	255	255	255	s
Request Engine Run Time	8.2	8.2	8.2	8.2	8.2	s
Judge Time Engine Ignition	3.0	3.0	3.0	3.0	3.0	s
Judge Time Engine Output	0.1	0.1	0.1	0.1	0.1	s
Fuel Level	Not Emp	Not Emp	Not Emp	Not Emp	Not Emp	
ISC Learning	Incmpl	Incmpl	Incmpl	Incmpl	Incmpl	
F/C for Engine Stop Req	OFF	OFF	OFF	OFF	OFF	
Engine Independent	Not Opr	Not Opr	Not Opr	Not Opr	Not Opr	
Racing Operation	Not Opr	Not Opr	Not Opr	Not Opr	Not Opr	
Request Warm-up	Not Req	Not Req	Not Req	Not Req	Not Req	
Engine Independent Control	Not Opr	Not Opr	Not Opr	Not Opr	Not Opr	
ISC Learning Value	2.34	2.34	2.34	2.34	2.34	L/s