

Vehicle Diagnostic Report

2011 LS460 1UR-FSE

JTHCL5EFXXXXXXXXXX

lextech@fastmail.com

Printed By: Default User(1)

4/27/2020 6:26:04 PM

Diagnostic Trouble Code Report

Engine(1 of 1)

DTC Monitors are Complete.

MIL: OFF

Code	Description	Current	Pending	History	Permanent	Summary	Freeze Frame
P1603	Engine Stall History	X		X		Icon E	N
P1604	Startability Malfunction	X		X		Icon E	N
P1605	Rough Idling	X		X		Icon E	Y

Freeze Frame Data Report

P1605(1 of 3)

Parameter	Value					Unit
	-3	-2	-1	0	1	
Vehicle Speed	4	4	3	2	2	MPH
Engine Speed	781	941	740	372	721	rpm
Calculate Load	58.8	56.8	61.5	74.1	81.1	%
Vehicle Load	31.7	26.6	36.8	103.5	50.9	%
MAF	11.39	11.53	12.42	17.60	16.70	gm/sec
MAF #1	5.84	6.01	6.40	8.96	8.62	gm/sec
MAF #2	5.54	5.51	6.01	8.64	8.07	gm/sec
Atmosphere Pressure	-1	-1	-1	-1	-1	psi(gauge)
Coolant Temp	48	48	48	48	48	F
Intake Air	41	41	41	41	41	F
Intake Air #1	43	43	43	43	43	F
Intake Air #2	43	43	43	43	43	F
Ambient Temperature	37	37	37	37	37	F
Engine Run Time	33	34	34	35	35	s
Initial Engine Coolant Temp	35.2	35.2	35.2	35.2	35.2	F
Initial Intake Air Temp	38.7	38.7	38.7	38.7	38.7	F
Battery Voltage	13.847	13.847	13.730	11.933	12.832	V
Accel Sens. No.1 Volt %	15.6	15.6	26.2	25.4	25.8	%
Accel Sens. No.2 Volt %	32.1	32.1	42.3	41.5	41.9	%
Throttle Sensor Volt %	19.6	19.6	20.3	21.1	21.5	%
Throttle Sensor #2 Volt %	52.1	52.1	52.9	54.1	54.5	%
Throttle Sensor Position	0.3	0.3	1.1	2.3	2.3	%
Throttle Motor DUTY	19.6	19.6	20.7	21.5	21.5	%
Throttle Position	0.00	0.00	0.79	2.40	2.68	deg
ISC Flow	13.16	13.39	13.45	12.80	12.37	L/s
ISC Position	7.35	7.45	7.47	7.20	7.02	deg
ISC Feedback Value	0.43	0.43	0.43	0.43	0.43	L/s
ISC Learning Value	4.31	4.31	4.31	4.31	4.31	L/s
Electric Load Feedback Val	0.77	0.80	1.02	0.77	0.61	L/s
Air Conditioner FB Val	0.38	0.38	0.38	0.38	0.38	L/s
Low Revolution Control	OFF	OFF	OFF	OFF	OFF	
N Range Status	OFF	OFF	OFF	OFF	OFF	
Eng Stall Control FB Flow	0.00	0.00	0.00	0.00	0.00	L/s
Deposit Loss Flow	1.51	1.51	1.51	1.51	1.51	L/s
Fuel Press	1160	1167	1170	1320	1299	psig
Injector (Port)	3715	3506	4272	4507	5836	us
Injection Volum (Cylinder1)	0.184	0.184	0.196	0.196	0.196	ml
Fuel Pump Speed Control	ON	ON	ON	ON	ON	
Fuel Pump/Speed Status	ON	ON	ON	ON	ON	
Vacuum Pump	OFF	OFF	OFF	OFF	OFF	
Fuel Pressure Target Value	8.144	7.890	8.718	10.562	11.417	MPa
Fuel Pump Duty (D4)	0.0	0.0	0.0	13.0	26.0	%
Fuel Pump2 Duty (D4)	0.0	0.0	0.0	13.0	26.0	%
HP FP Discharge Rate	0.000	0.000	0.015	0.093	0.170	ml

Freeze Frame Data Report
P1605(2 of 3)

Parameter	Value					Unit
	-3	-2	-1	0	1	
HP FP Discharge Rate 2	0.000	0.000	0.000	0.093	0.170	ml
Injection Way	Port	Port	Direct	Either	Either	
Injection Switching Status	NG	NG	NG	NG	NG	
Injection Timing (D4)	1023.9	1023.9	1023.9	180.0	295.0	deg (CA)
Injection Time (D4)	0	0	0	823	1485	us
EVAP (Purge) VSV	0.0	0.0	0.0	0.0	0.0	%
Evap Purge Flow	0.0	0.0	0.0	0.0	0.0	%
Purge Density Learn Value	0.000	0.000	0.000	0.000	0.000	
EVAP System Vent Valve	OFF	OFF	OFF	OFF	OFF	
EVAP Purge VSV	OFF	OFF	OFF	OFF	OFF	
Purge Cut VSV Duty	0.0	0.0	0.0	0.0	0.0	%
Target Air-Fuel Ratio	0.999	0.999	0.992	0.992	0.992	
AF Lambda B1S1	0.958	1.014	1.034	1.035	1.052	
AF Lambda B2S1	0.961	1.028	1.038	1.043	1.099	
AFS Voltage B1S1	3.068	3.390	3.478	3.488	3.566	V
AFS Voltage B2S1	3.127	3.473	3.512	3.527	3.742	V
AFS Current B1S1	-0.15	0.05	0.10	0.11	0.16	mA
AFS Current B2S1	-0.11	0.10	0.13	0.14	0.27	mA
A/F Heater Duty B1S1	66.4	66.4	67.9	69.5	75.0	%
A/F Heater Duty B2S1	66.4	66.4	67.9	69.5	75.0	%
O2S B1S2	0.000	0.000	0.000	0.000	0.000	V
O2S B2S2	0.000	0.000	0.000	0.000	0.000	V
O2S Impedance B1S2	21247.67	21247.67	21247.67	21247.67	21247.67	ohm
O2S Impedance B2S2	21247.67	21247.67	21247.67	21247.67	21247.67	ohm
O2 Heater B1S2	Not Act	Not Act	Not Act	Not Act	Not Act	
O2 Heater B2S2	Not Act	Not Act	Not Act	Not Act	Not Act	
O2 Heater Curr Val B1S2	0.000	0.000	0.000	0.000	0.000	A
O2 Heater Curr Val B2S2	0.000	0.000	0.000	0.000	0.000	A
Short FT B1S1	-11.719	-9.375	-6.250	0.000	0.000	%
Long FT B1S1	-8.594	-8.594	-5.469	-2.344	-2.344	%
Total FT #1	0.000	0.000	-0.024	-0.024	-0.024	
Short FT B2S1	-14.063	-10.157	-7.032	0.000	0.000	%
Long FT B2S1	-7.032	-6.250	-4.688	0.000	0.000	%
Total FT #2	0.000	0.000	-0.024	-0.024	-0.024	
Fuel System Status #1	CL	CL	CL	OL	OL	
Fuel System Status #2	CL	CL	CL	OL	OL	
IGN Advance	17.5	12.5	10.0	20.5	20.5	deg
Knock Feedback Value	-3.0	-3.0	-3.0	-3.0	-3.0	deg (CA)
Knock Correct Learn Value	25.9	25.9	25.9	25.9	25.9	deg (CA)
Idle Spark Advn Ctrl #1	0.00	0.00	0.00	0.00	0.00	deg (CA)
Idle Spark Advn Ctrl #2	0.00	0.00	0.00	0.00	0.00	deg (CA)
Idle Spark Advn Ctrl #3	0.00	0.00	0.00	0.00	0.00	deg (CA)
Idle Spark Advn Ctrl #4	0.00	0.00	0.00	0.00	0.00	deg (CA)
Idle Spark Advn Ctrl #5	0.00	0.00	0.00	0.00	0.00	deg (CA)
Idle Spark Advn Ctrl #6	0.00	0.00	0.00	0.00	0.00	deg (CA)
Idle Spark Advn Ctrl #7	0.00	0.00	0.00	0.00	0.00	deg (CA)
Idle Spark Advn Ctrl #8	0.00	0.00	0.00	0.00	0.00	deg (CA)
ACIS Motor Duty	0.00	0.00	0.00	0.00	0.00	%
VVT Advance Fail	OFF	OFF	OFF	OFF	OFF	
Catalyst Temp B1S1	853.2	853.2	865.2	865.2	865.2	F
Catalyst Temp B2S1	853.2	853.2	865.2	865.2	865.2	F
Catalyst Temp B1S2	666.9	666.9	672.1	672.1	672.1	F
Catalyst Temp B2S2	666.9	666.9	672.1	672.1	672.1	F
Starter Signal	OFF	OFF	OFF	OFF	OFF	
Starter Control	OFF	OFF	OFF	OFF	OFF	
Starter Relay	OFF	OFF	OFF	OFF	OFF	
ACC Relay	OFF	OFF	OFF	OFF	OFF	
Neutral Position SW Signal	OFF	OFF	OFF	OFF	OFF	
Stop Light Switch	OFF	OFF	OFF	OFF	OFF	
A/C Signal	ON	ON	ON	ON	ON	
Idle Up Signal	OFF	OFF	OFF	OFF	OFF	

Freeze Frame Data Report
P1605(3 of 3)

Parameter	Value					Unit
	-3	-2	-1	0	1	
Closed Throttle Position SW	ON	ON	OFF	OFF	OFF	
Fuel Cut Condition	OFF	OFF	OFF	OFF	OFF	
Immobiliser Communication	ON	ON	ON	ON	ON	
TC Terminal	OFF	OFF	OFF	OFF	OFF	
Time after DTC Cleared	6030	6030	6030	6030	6030	min
Distance from DTC Cleared	2979	2979	2979	2979	2979	mile
Warmup Cycle Cleared DTC	98	98	98	98	98	
Dist Batt Cable Disconnect	5250	5250	5250	5250	5250	mile
IG OFF Elapsed Time	1020	1020	1020	1020	1020	min
TC and TE1	OFF	OFF	OFF	OFF	OFF	
Ignition Trig. Count	420	451	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	
Cylinder #5 Misfire Count	0	0	0	0	0	
Cylinder #6 Misfire Count	0	0	0	0	0	
Cylinder #7 Misfire Count	0	0	0	0	0	
Cylinder #8 Misfire Count	0	0	0	0	0	
All Cylinders Misfire Count	3	3	3	3	3	
Multi 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	85.00	85.00	82.00	82.00	82.00	%
Catalyst OT MF F/C	Avail	Avail	Avail	Avail	Avail	
Cat OT MF F/C History	OFF	OFF	OFF	OFF	OFF	
Cat OT MF F/C Cylinder#1	OFF	OFF	OFF	OFF	OFF	
Cat OT MF F/C Cylinder#2	OFF	OFF	OFF	OFF	OFF	
Cat OT MF F/C Cylinder#3	OFF	OFF	OFF	OFF	OFF	
Cat OT MF F/C Cylinder#4	OFF	OFF	OFF	OFF	OFF	
Cat OT MF F/C Cylinder#5	OFF	OFF	OFF	OFF	OFF	
Cat OT MF F/C Cylinder#6	OFF	OFF	OFF	OFF	OFF	
Cat OT MF F/C Cylinder#7	OFF	OFF	OFF	OFF	OFF	
Cat OT MF F/C Cylinder#8	OFF	OFF	OFF	OFF	OFF	
Engine Speed (Starter Off)	790	790	790	790	790	rpm
Starter Count	1	1	1	1	1	
Run Dist of Previous Trip	0.01	0.01	0.01	0.01	0.01	mile
Engine Starting Time	0	0	0	0	0	ms
Previous Trip Coolant Temp	48	48	48	48	48	F
Previous Trip Intake Temp	50	50	50	50	50	F
Engine Oil Temperature	36	36	36	36	36	F
Previous Trip Eng Oil Temp	86	86	86	86	86	F
Ambient Temp for A/C	36	36	36	36	36	F
Previous Trip Ambient Temp	37	37	37	37	37	F
Engine Start Hesitation	OFF	OFF	OFF	OFF	OFF	
Low Rev for Eng Start	OFF	OFF	OFF	OFF	OFF	
Minimum Engine Speed	424	424	424	377	374	rpm
Electric Fan Motor	ON	ON	ON	ON	ON	
Idle Fuel Cut	OFF	OFF	OFF	OFF	OFF	
FC TAU	OFF	OFF	OFF	OFF	OFF	
Immobiliser Fuel Cut	OFF	OFF	OFF	OFF	OFF	
Communication with ECT	Comm	Comm	Comm	Comm	Comm	
Electrical Load Signal 1	ON	ON	ON	ON	ON	
Key Unlock Signal	ON	ON	ON	ON	ON	
Received MIL from ECT	OFF	OFF	OFF	OFF	OFF	
Shift Position Sig from ECT	1st	1st	1st	1st	1st	
A/T Oil Temp from ECT	36.5	36.5	36.5	36.5	36.5	F
SPD (NO)	100	50	0	0	0	rpm
SPD (NT)	450	750	0	50	100	rpm
ECT Lock Up	OFF	OFF	OFF	OFF	OFF	
Shift SW Status (P Range)	OFF	OFF	OFF	OFF	OFF	
Pattern Switch (PWR/M)	OFF	OFF	OFF	OFF	OFF	
Shift SW Status (R Range)	OFF	OFF	OFF	OFF	OFF	
Shift SW Status (N Range)	OFF	OFF	OFF	OFF	OFF	
Sports Shift Up SW	OFF	OFF	OFF	OFF	OFF	
Sports Shift Down SW	OFF	OFF	OFF	OFF	OFF	
Sports Mode Selection SW	OFF	OFF	OFF	OFF	OFF	
Shift SW Status (D Range)	ON	ON	ON	ON	ON	
Snow or 2nd Start Mode	OFF	OFF	OFF	OFF	OFF	