Diagnostic Report

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VIN: 1ZxxxxxxxxxxxxV6537
Manufacturer: Ford
Model: Mustang
Year: 2012

Monitor Status Report

Name	Continuous	Available	Complete
Misfire	Yes	Yes	Yes
Fuel System	Yes	Yes	Yes
Components	Yes	Yes	Yes
Catalyst	No	Yes	Yes
Heated Catalyst	No	No	No
Evap System	No	Yes	Yes
Secondary Air System	No	No	No
AC Refrigerant	No	No	No
Oxygen Sensor	No	Yes	Yes
Oxygen Sensor Heater	No	Yes	Yes

EGR System	No	Yes	Yes

MIL Off
Number of Stored Codes: 0

This vehicle is ready for emissions testing

Trouble Code Report

Code	Type	Status	Description
P0315	PowerTrain	Permanent	Crankshaft Position System Variation Not Learned

Additional Information

PID	Description	Value	Units
SAE 0x21	Distance traveled while MIL is activated	0	km
SAE 0x30	Number of warm-ups since DTCs cleared	247	
SAE 0x31	Distance traveled since DTCs cleared	2092	km

Service $01 - Powertrain Diagnostic Data

PID	Description	Value	Units
SAE 0x04	Calculated load value	21.18	%
SAE 0x05	Engine coolant temperature	89	C
SAE 0x06	Short term fuel % trim - Bank 1	0	%
SAE 0x07	Long term fuel % trim - Bank 1	7.81	%

SAE 0x08	Short term fuel % trim - Bank 2	0	%
SAE 0x09	Long term fuel % trim - Bank 2	3.91	%
SAE 0x0C	Engine RPM	647.5	RPM
SAE 0x0D	Vehicle speed	0	km/h
SAE 0x0E	Ignition timing advance for #1 cylinder	17	
SAE 0x0F	Intake air temperature	21	C
SAE 0x10	Mass air flow rate	3.8	g/s
SAE 0x11	Absolute throttle position	12.94	%
SAE 0x15	Oxygen sensor voltage (Bank 1, Sensor 2)	0.88	V
SAE 0x15	Short term fuel trim (Bank 1, Sensor 2)	-1	%
SAE 0x19	Oxygen sensor voltage (Bank 2, Sensor 2)	0.88	V
SAE 0x19	Short term fuel trim (Bank 2, Sensor 2)	-1	%
SAE 0x1F	Time since engine start	1129	sec
SAE 0x21	Distance traveled while MIL is activated	0	km
SAE 0x2E	Commanded evaporative purge	23.92	%
SAE 0x2F	Fuel level input	32.16	%
SAE 0x30	Number of warm-ups since DTCs cleared	247	
SAE 0x31	Distance traveled since DTCs cleared	2092	km
SAE 0x32	Evap system vapor pressure	7977	Pa
SAE 0x33	Barometric pressure	98	kPa

SAE 0x34	Oxygen sensor 1 lambda wide range (current probe)	0.99	
SAE 0x34	Oxygen sensor 1 current wide range	-0.05	mA
SAE 0x38	Oxygen sensor 5 lambda wide range (current probe)	1.01	
SAE 0x38	Oxygen sensor 5 current wide range	0.01	mA
SAE 0x3C	Catalyst temperature (Bank 1 Sensor 1)	401.2	C
SAE 0x3D	Catalyst temperature (Bank 2 Sensor 1)	401.2	C
SAE 0x42	Control module voltage	14.3	V
SAE 0x43	Absolute load value	12.16	%
SAE 0x44	Fuel/Air commanded equivalence ratio	1.01	
SAE 0x45	Relative throttle position	0.78	%
SAE 0x46	Ambient air temperature	14	C
SAE 0x47	Absolute throttle position B	14.12	%
SAE 0x49	Accelerator pedal position D	16.08	%
SAE 0x4A	Accelerator pedal position E	7.84	%
SAE 0x4C	Commanded throttle actuator control	1.57	%
Custom 0x00	Input voltage read by the scan tool	14.3	V

Service $02 - Freeze Frame Report

Freeze Frame data is not available

Service $05 - Oxygen Sensors

Sensor	Available
Bank 1 - Sensor 1	Yes
Bank 1 - Sensor 2	Yes
Bank 1 - Sensor 3	No
Bank 1 - Sensor 4	No
Bank 2 - Sensor 1	Yes
Bank 2 - Sensor 2	Yes
Bank 2 - Sensor 3	No
Bank 2 - Sensor 4	No

Service $06 - On-Board Monitoring

Component	Description	Value	Minimum	Maximum	Units	Result
Exhaust Gas Sensor Monitor Bank 1 – Sensor 1	TID $87 - Manufacturer Defined	0	0	0.6	sec	Pass
Exhaust Gas Sensor Monitor Bank 1 – Sensor 1	TID $88 - Manufacturer Defined	0.028	0	0.6	sec	Pass
Exhaust Gas Sensor Monitor Bank 1 – Sensor 2	TID $85 - Manufacturer Defined	-2.22	-15	0	L	Pass
Exhaust Gas Sensor Monitor Bank 1 –	TID $86 - Manufacturer Defined	2.065	0	10	sec	Pass

Sensor 2						
Exhaust Gas Sensor Monitor Bank 2 – Sensor 1	TID $87 - Manufacturer Defined	0	0	0.6	sec	**Pass**
Exhaust Gas Sensor Monitor Bank 2 – Sensor 1	TID $88 - Manufacturer Defined	0.018	0	0.6	sec	**Pass**
Exhaust Gas Sensor Monitor Bank 2 – Sensor 2	TID $85 - Manufacturer Defined	-2.187	-15	0	L	**Pass**
Exhaust Gas Sensor Monitor Bank 2 – Sensor 2	TID $86 - Manufacturer Defined	2.033	0	10	sec	**Pass**
Catalyst Monitor Bank 1	TID $81 - Manufacturer Defined	0.2969	0	0.7617		**Pass**
Catalyst Monitor Bank 2	TID $81 - Manufacturer Defined	0.2305	0	0.7109		**Pass**
VVT Monitor Bank 1	TID $82 - Manufacturer Defined	0	0	16.73	deg	**Pass**
VVT Monitor Bank 1	TID $83 - Manufacturer Defined	0	0	8.94	deg	**Pass**
VVT Monitor Bank 1	TID $84 - Manufacturer Defined	0	0	15.81	deg	**Pass**
VVT Monitor Bank 1	TID $85 - Manufacturer Defined	0	0	8.94	deg	**Pass**
VVT Monitor Bank 2	TID $82 - Manufacturer Defined	0	0	16.73	deg	**Pass**
VVT Monitor Bank 2	TID $83 - Manufacturer Defined	0	0	8.94	deg	**Pass**
VVT Monitor Bank 2	TID $84 - Manufacturer Defined	0	0	15.81	deg	**Pass**
VVT Monitor Bank 2	TID $85 - Manufacturer Defined	0	0	8.94	deg	**Pass**
EVAP Monitor (0.090”)	TID $80 - Manufacturer Defined	-1992.5	-1992.5	8191.75	Pa	**Pass**

EVAP Monitor (0.090”)	TID $81 - Manufacturer Defined	0	0	0	Pa	**Pass**
EVAP Monitor (0.090”)	TID $82 - Manufacturer Defined	-1992.5	-8192	-1992.5	Pa	**Pass**
EVAP Monitor (0.040”)	TID $80 - Manufacturer Defined	69.5	-8192	946.5	Pa	**Pass**
EVAP Monitor (0.020”)	TID $81 - Manufacturer Defined	61.25	27.5	8191.75	Pa	**Pass**
EVAP Monitor (0.020”)	TID $82 - Manufacturer Defined	0	0	0	Pa	**Pass**
EVAP Monitor (0.020”)	TID $83 - Manufacturer Defined	0	0	0.55		**Pass**
Purge Flow Monitor	TID $80 - Manufacturer Defined	-826.25	-2490.75	8191.75	kPa/s	**Pass**
Purge Flow Monitor	TID $81 - Manufacturer Defined	0	0	0	Pa	**Pass**
Purge Flow Monitor	TID $82 - Manufacturer Defined	0	0	0	Pa	**Pass**
Exhaust Gas Sensor Heater Monitor Bank 1 – Sensor 1	TID $81 - Manufacturer Defined	1.511	0.55	3	A	**Pass**
Exhaust Gas Sensor Heater Monitor Bank 1 – Sensor 2	TID $81 - Manufacturer Defined	0.681	0.219	3	A	**Pass**
Exhaust Gas Sensor Heater Monitor Bank 2 – Sensor 1	TID $81 - Manufacturer Defined	1.47	0.55	3	A	**Pass**
Exhaust Gas Sensor Heater Monitor Bank 2 – Sensor 2	TID $81 - Manufacturer Defined	0.708	0.219	3	A	**Pass**
Fuel System Monitor Bank 1	TID $80 - Manufacturer Defined	0	0	0.6875		**Pass**

Fuel System Monitor Bank 2	TID $80 - Manufacturer Defined	0	0	0.5898		**Pass**
Misfire Monitor General Data	TID $80 - Manufacturer Defined	0	0	24.4999	%	**Pass**
Misfire Monitor General Data	TID $81 - Manufacturer Defined	0	0	0.9995	%	**Pass**
Misfire Monitor General Data	TID $84 - Manufacturer Defined	401.9	-40	505.3	C	**Pass**
Misfire Cylinder 1 Data	TID $0B - EWMA (Exponential Weighted Moving Average) misfire counts for last ten (10) driving cycles	0	0	65535	counts	**Pass**
Misfire Cylinder 1 Data	TID $0C - Misfire counts for last/current driving cycles (calculated, rounded to an integer value)	0	0	65535	counts	**Pass**
Misfire Cylinder 1 Data	TID $80 - Manufacturer Defined	0	0	24.4999	%	**Pass**
Misfire Cylinder 1 Data	TID $81 - Manufacturer Defined	0	0	0.9995	%	**Pass**
Misfire Cylinder 2 Data	TID $0B - EWMA (Exponential Weighted Moving Average) misfire counts for last ten (10) driving cycles	0	0	65535	counts	**Pass**
Misfire Cylinder 2 Data	TID $0C - Misfire counts for last/current driving cycles (calculated, rounded to an integer value)	5	0	65535	counts	**Pass**
Misfire Cylinder 2 Data	TID $80 - Manufacturer Defined	0	0	24.4999	%	**Pass**
Misfire Cylinder 2 Data	TID $81 - Manufacturer Defined	0	0	0.9995	%	**Pass**
Misfire Cylinder 3 Data	TID $0B - EWMA (Exponential Weighted Moving Average)	0	0	65535	counts	**Pass**

	misfire counts for last ten (10) driving cycles					
Misfire Cylinder 3 Data	TID $0C - Misfire counts for last/current driving cycles (calculated, rounded to an integer value)	1	0	65535	counts	**Pass**
Misfire Cylinder 3 Data	TID $80 - Manufacturer Defined	0	0	24.4999	%	**Pass**
Misfire Cylinder 3 Data	TID $81 - Manufacturer Defined	0	0	0.9995	%	**Pass**
Misfire Cylinder 4 Data	TID $0B - EWMA (Exponential Weighted Moving Average) misfire counts for last ten (10) driving cycles	0	0	65535	counts	**Pass**
Misfire Cylinder 4 Data	TID $0C - Misfire counts for last/current driving cycles (calculated, rounded to an integer value)	2	0	65535	counts	**Pass**
Misfire Cylinder 4 Data	TID $80 - Manufacturer Defined	0	0	24.4999	%	**Pass**
Misfire Cylinder 4 Data	TID $81 - Manufacturer Defined	0	0	0.9995	%	**Pass**
Misfire Cylinder 5 Data	TID $0B - EWMA (Exponential Weighted Moving Average) misfire counts for last ten (10) driving cycles	0	0	65535	counts	**Pass**
Misfire Cylinder 5 Data	TID $0C - Misfire counts for last/current driving cycles (calculated, rounded to an integer value)	2	0	65535	counts	**Pass**
Misfire Cylinder 5 Data	TID $80 - Manufacturer Defined	0	0	24.4999	%	**Pass**
Misfire Cylinder 5 Data	TID $81 - Manufacturer Defined	0	0	0.9995	%	**Pass**

Misfire Cylinder 6 Data	TID $0B - EWMA (Exponential Weighted Moving Average) misfire counts for last ten (10) driving cycles	0	0	65535	counts	**Pass**
Misfire Cylinder 6 Data	TID $0C - Misfire counts for last/current driving cycles (calculated, rounded to an integer value)	1	0	65535	counts	**Pass**
Misfire Cylinder 6 Data	TID $80 - Manufacturer Defined	0	0	24.4999	%	**Pass**
Misfire Cylinder 6 Data	TID $81 - Manufacturer Defined	0	0	0.9995	%	**Pass**
Misfire Cylinder 7 Data	TID $0B - EWMA (Exponential Weighted Moving Average) misfire counts for last ten (10) driving cycles	0	0	65535	counts	**Pass**
Misfire Cylinder 7 Data	TID $0C - Misfire counts for last/current driving cycles (calculated, rounded to an integer value)	2	0	65535	counts	**Pass**
Misfire Cylinder 7 Data	TID $80 - Manufacturer Defined	0	0	24.4999	%	**Pass**
Misfire Cylinder 7 Data	TID $81 - Manufacturer Defined	0	0	0.9995	%	**Pass**
Misfire Cylinder 8 Data	TID $0B - EWMA (Exponential Weighted Moving Average) misfire counts for last ten (10) driving cycles	0	0	65535	counts	**Pass**
Misfire Cylinder 8 Data	TID $0C - Misfire counts for last/current driving cycles (calculated, rounded to an integer value)	1	0	65535	counts	**Pass**
Misfire Cylinder 8 Data	TID $80 - Manufacturer Defined	0	0	24.4999	%	**Pass**
Misfire Cylinder 8	TID $81 - Manufacturer Defined	0	0	0.9995	%	**Pass**

Data						

Service $09 - Vehicle Information

General Information

Description	Value
Vehicle Identification Number	1ZxxxxxxxxxxxV6537
Calibration ID - $7E8	FPDN185.H32
Calibration Verification Number - $7E8	98B3DA6B

In-Performance Tracking

Counter	Description	Value
0x00	OBD Monitoring Conditions Encountered Counts	178
0x01	Ignition Cycle Counter	452
0x02	Catalyst Monitor Completion Counts Bank 1	56
0x03	Catalyst Monitor Conditions Encountered Counts Bank 1	178
0x04	Catalyst Monitor Completion Counts Bank 2	56
0x05	Catalyst Monitor Conditions Encountered Counts Bank 2	178
0x06	O2 Sensor Monitor Completion Counts Bank 1	88
0x07	O2 Sensor Monitor Conditions Encountered Counts Bank 1	178
0x08	O2 Sensor Monitor Completion Counts Bank 2	88

0x09	O2 Sensor Monitor Conditions Encountered Counts Bank 2	178
0x0A	EGR and/or VVT Monitor Completion Condition Counts	240
0x0B	EGR and/or VVT Monitor Conditions Encountered Counts	161
0x0E	EVAP Monitor Completion Condition Counts	64
0x0F	EVAP Monitor Conditions Encountered Counts	60
0x10	Secondary O2 Sensor Monitor Completion Counts Bank 1	32
0x11	Secondary O2 Sensor Monitor Conditions Encountered Counts Bank 1	178
0x12	Secondary O2 Sensor Monitor Completion Counts Bank 2	32
0x13	Secondary O2 Sensor Monitor Conditions Encountered Counts Bank 2	178