

Mazda Motor Corporation
3-1 Shinchi, Fuchu-cho
Aki-gun, Hiroshima 730-8670
JAPAN



Mr. Chris Nevers
Compliance and Innovative Strategies Division
Office of Transportation and Air Quality
Environmental Protection Agency
2000 Traverwood Dr,
Ann Arbor, Michigan 48105
U.S.A.

December 10, 2008
Ref. No. LCE-08/154

Dear Mr. Nevers:

Subject: Submission of Application for Certification for Light-Duty Vehicles and Trucks

Mazda Motor Corporation is submitting the application for certification of the 2008MY Final and 2009MY Update for Mazda light-duty vehicles and trucks. For detail, please refer to attachment 1.

If you have questions or comments regarding the materials submitted, contact Mr. David Robertson of Mazda North America Operations at 313-594-7778.

Sincerely Yours,

A handwritten signature in black ink, appearing to read 'Naoyuki Osaki', with a large, sweeping flourish above the name.

Naoyuki Osaki
General Manger
Environmental & Safety Engineering Department
Mazda Motor Corporation

Enclosure:

cc: Mazda North American Operations - Allen Park
Mazda North American Operations - Irvine

(a) 2008MY Common Section Final and Part I&II Final for the following test groups:

Model	Test Group	Evap/Refueling Family
Mazda MX-5 (2.0L)	8TKXV02.05FA	8TKXR0125GAK
Mazda 5 (2.3L)	8TKXV02.35DA	
Mazda 3 (2.0L&2.3L Federal)	8TKXV02.35NM	8TKXR0115GBK
Mazda 3 (2.0L, California)	8TKXV02.0NH1	8TKXR0107GCX
Mazda 3 (2.3L, California)	8TKXV02.3NH1	
Mazdaspeed 3 (2.3L, T/C, Federal)	8TKXV02.35NN	8TKXR0115GBK
Mazdaspeed 3 (2.3L, T/C, California)	8TKXV02.3NF1	
Mazda 6 (2.3L, Federal)	8TKXV02.35DB	
Mazda 6 (2.3L, California, Manual Transmission)		8TKXR0125GAK
Mazda 6 (2.3L, California, Automatic Transmission)	8TKXV02.3NH2	8TKXR0132GCX
Mazda 6 (3.0L, Federal)	8TKXV03.05FA	8TKXR0115GBK
Mazda 6 (3.0L, California)		8TKXR0125GAK
RX-8 (1.3L)	8TKXV01.35DA	8TKXR0115GBK
CX-7 (2.3L, T/C)	8TKXT02.35DA	8TKXR0152GAL
CX-9 (3.7L)	8TKXT03.75FA	8TKXR0170GAL

(b) 2009MY Part I Common Section Update and Part I&II Update for the following test groups:

Model	Test Group	Evap/Refueling Family
Mazda MX-5 (2.0L)	9TKXV02.05BA	9TKXR0125GAK
Mazda 5 (2.3L)	9TKXV02.35AB	
Mazda 3 (2.0L&2.3L Federal)	9TKXV02.35NM	9TKXR0115GBK
Mazda 3 (2.0L, California)	9TKXV02.0NC1	9TKXR0107GCX
Mazda 3 (2.3L, California)	9TKXV02.3NC1	
Mazdaspeed 3 (2.3L, T/C, Federal)	9TKXV02.35NN	9TKXR0115GBK
Mazdaspeed 3 (2.3L, T/C, California)	9TKXV02.3NB1	
Mazda 6 (2.5L, Federal)	9TKXV02.55AA	9TKXR0150GAK
Mazda 6 (2.5L, California, Manual Transmission)		9TKXR0150GCX
Mazda 6 (2.5L, California, Automatic Transmission)	9TKXV02.5NC1	9TKXR0150GCX
Mazda 6 (3.7L)	9TKXV03.75BA	9TKXR0150GAK
RX-8 (1.3L)	9TKXV01.35AA	9TKXR0115GBK
CX-7 (2.3L, T/C)	9TKXT02.35AA	9TKXR0152GAL
CX-9 (3.7L)	9TKXT03.75BB	9TKXR0170GAL

Mazda Motor Corporation

Application for Certification - Part 1

2009 Model Year

Durability Group:
9TKXGRGNNA3

Evap. Family:
9TKXR0115GBK

Test Group:
9TKXV01.35AA

Summary Sheet No.:
560T2-01

Durability Group Description:

Otto Cycle, Rotary, Gasoline Fueled, Sequential Multi-port FI,
Catalyst Code: N3R1

Test Group Description:

1.3 Liter, Rotary Engine, LDV

Applicable Standards:

Federal: Tier2-Bin5
California: LEVII-LEV

Carlines Covered:

Mazda RX-8

Vehicles Tested:

9EC13BS1	Config. 02:	Cold-CO	1083085		
	Config. 03:	FTP	1083086	HWY	1083087
		US06	1083088	SC03	1083089
4ECL3VS2	Config. 00	ORVR	1051340	Spitback	1051339
	Config. 01	Evap(2day)	1051342	Evap(3day)	1051344

EPA Response Requested by: February 29, 2008

For Questions, Contact:

EPA: David Robertson, 313-594-7778
CARB: Masa Morimoto, 949-852-7292

Initial Submission on 2/8/2008
[Update Submission on 12/5/2008](#)

Mazda Motor Corporation
2009 Model Year Application for Certification
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Initial Submission on 2/8/08

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4. Description of Durability Procedure

4.4. List of DF

Please refer to individual test group's application section 7 test result (Summary sheet).

5. TEST GROUP DESCRIPTION**5-1. Description of Test Group in accordance with §86.1827-01**

Car Line	Mazda RX-8 1.3L
Test Group Name	9TKXV01.35AA
Summary Sheet Nos.	560T2-01
Engine Displacements Covered	1309.4
Arrangement and Number of Cylinders	Rotary
Vehicle Class(es) Covered	LDV
Emission Standards Class	Federal Tier2-Bin5/California LEV -LEV
Applicable Emission Standards	Refer to Summary Sheet Nos. shown above.

Initial Submission on 2/8/08
Update Submission on 12/5/08

6. TEST VEHICLE DESCRIPTION

Date: 15-JAN-08
Time: 07:58:52 AM

CERTIFICATION AND FUEL ECONOMY INFORMATION SYSTEM (CFEIS)
VEHICLE INFORMATION CAP2000
DATABASE REPORT

Page: 1

Manufacturer:	560 MAZDA MOTOR CORP.	Configuration:	2
Vehicle ID:	9EC13BS1	Model Year:	2009
Division:	1 MAZDA	Carline:	8 MAZDA RX-8
Drive:	1 REAR DRIVE STR LEFT	Catalyst:	3 3-WAY CATALYST
Source:	01 MANUFACTURER	Model Year From/To:	
Test Group:	9TKXV01.35AA	Vehicle Purpose:	01 CERT EMISSION
Evaporative/Refueling Family:	9TKXR0115GBK	Turbo/Supercharger:	N NONE
		Evap System:	1

Engine Information

Engine Code: 913BSAA1
Engine Type: 01 OTTO SPARK
Crankcase System: 1
Cylinders: 2
Valves/Cylinder: 0
Displacement: 1309.4 CC CUBIC CENTIMETERS
Rated HP: 212
Compression Ratio: 10

Ignition Timing

1:
1 Before/After:
RPM:
RPM Tolerance:
Degree Tolerance:
Gear:

Idling

RPM: 810
RPM Tolerance: 50
Gear: N NEUTRAL
A/C: YES

Design Vehicle Weights

Curb: 3154
ETW: 3500
ETW Wt Units: P
Gross:
Full Tank Axle: 1480
Empty Tank Axle: 1395
40% Axle: 1429
Mfr Wt Units: P

Exhaust Emission Related Components

10 AIR INJECTION PUMP
15 THREE-WAY CATALYST HEATED O2
41 MULTIPLE POINT FUEL INJECTION
60 DETONATION SENSOR
62 ELECTRONIC CONTROLS-DIGITAL

Catalyst Preheating Method

0 NONE

Tire

Manufacturer: BRIDGESTONE
Construction: 2 RADIAL
Size: SEE COMM.
Pressure Front: 32
Pressure Rear: 32
Pressure Units: PSI POUNDS PER SQUARE INCH

Odometer Correction

Sign: -
Initial: 0
Factor: 1.005
Units: M

Drive Train

Trans Config: 26 L6 LOCK-UP/AUTOMATIC/6-SPEED
Axle Ratio: 4.3
NV Ratio: 33.5

Sales Areas

CA CALIFORNIA
FA FEDERAL ALL ALTITUDE

Multimode

Running Change #:

Comments: MAZDA RX-8 1.3L S6 EM D-MODE TIRE AND RIM SIZE: 225/45R18 91W FUEL INJECTOR SYSTEM MFR: DENSO

Initial Submission on 2/8/08
Update Submission on 12/5/08

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CERTIFICATION AND FUEL ECONOMY INFORMATION SYSTEM (CFEIS)
VEHICLE INFORMATION
DATABASE REPORT

Page: 2

Manufacturer: 560 MAZDA MOTOR C Vehicle ID : 9EC13BS1 Configuration: 2

EVAPORATIVE SYSTEMS

Evaporative Emission Code	Canister Type	Canister Bed Vol(CC)	Canister Working Cap	No of Canisters	Alt Canister Loading Rate	Evaporative Emission Control System
6RSA	B Evap and Refue	2450	135 grams HC	1		102 CANISTER

FUEL SYSTEMS

Fuel System Mfr/Model	Main Tank Capacity	Auxiliary Tank Capacity	Fuel Type	Fuel System
SEE COMM.	64 LITERS		G GASOLINE	8 ELECTRIC MPI - SEQUENTIAL

TEST PROCEDURE FUEL

Test Proc	Fuel Type	SS DB	SS ID	TP SIL	TP DD	Side ID	AC Fan	AC HP	ETW CoastDn	Mfr CoastDn	Dyno HP	Target Coeff A	Target Coeff B	Target Coeff C	Set Coeff A	Set Coeff B	Set Coeff C
11	61	A	FTA	1			N	N	3500			33.26	.691	.01376	11.486	.4543	.01338

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CERTIFICATION AND FUEL ECONOMY INFORMATION SYSTEM (CFEIS)
VEHICLE INFORMATION CAP2000
DATABASE REPORT

Page: 1

Manufacturer:	560 MAZDA MOTOR CORP.	Configuration:	3
Vehicle ID:	9EC13BS1	Model Year:	2009
Division:	1 MAZDA	Carline:	8 MAZDA RX-8
Drive:	1 REAR DRIVE STR LEFT	Catalyst:	3 3-WAY CATALYST
Source:	01 MANUFACTURER	Model Year From/To:	
Test Group:	9TKXV01.35AA	Vehicle Purpose:	01 CERT EMISSION
Evaporative/Refueling Family:	9TKXR0115GBK	Turbo/Supercharger:	N NONE
		Evap System:	1

Engine Information

Engine Code: 913BSAA1
Engine Type: 01 OTTO SPARK
Crankcase System: 1
Cylinders: 2
Valves/Cylinder: 0
Displacement: 1309.4 CC CUBIC CENTIMETERS
Rated HP: 212
Compression Ratio:10

Ignition Timing

1:
1 Before/After:
RPM:
RPM Tolerance:
Degree Tolerance:
Gear:

Idling

RPM: 810
RPM Tolerance: 50
Gear: N NEUTRAL
A/C: YES

Design Vehicle Weights

Curb: 3154
ETW: 3500
ETW Wt Units: P
Gross:
Full Tank Axle: 1480
Empty Tank Axle: 1395
40% Axle: 1429
Mfr Wt Units: P

Exhaust Emission Related Components

10 AIR INJECTION PUMP
15 THREE-WAY CATALYST HEATED O2
41 MULTIPLE POINT FUEL INJECTION
60 DETONATION SENSOR
62 ELECTRONIC CONTROLS-DIGITAL

Catalyst Preheating Method

0 NONE

Tire

Manufacturer: BRIDGESTONE
Construction: 2 RADIAL
Size: SEE COMM.
Pressure Front: 32
Pressure Rear: 32
Pressure Units: PSI POUNDS PER SQUARE INCH

Odometer Correction

Sign: -
Initial: 0
Factor: 1.005
Units: M

Drive Train

Trans Config: 26 L6 LOCK-UP/AUTOMATIC/6-SPEED
Axle Ratio: 4.3
NV Ratio: 33.5

Sales Areas

CA CALIFORNIA
FA FEDERAL ALL ALTITUDE

Multimode

Comments: US06 ONLY:ADD 200LB OF WEIGHT TO THE VEHICLE IN THE TRUNK. US06 ONLY:USE SURROGATE TIRES (225/45R18 91Q) WITH HIGH GRIP. US06 ONLY:SURROGATE TIRE: 225/45R18 91Q BRIDGESTONE BLIZZAK REVO2 STUDLESS. US06 ONLY:GENERATE SPECIFIC DYNO COEFFICIENTS FOR THE US06 TEST VEHICLE. MAZDA RX-8 1.3L S6 EM D-MODE TIRE AND RIM SIZE: 225/45R18 91W FUEL INJECTOR SYSTEM MFR: DENSO

Running Change #:

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Update Submission on 12/5/08

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CERTIFICATION AND FUEL ECONOMY INFORMATION SYSTEM (CFEIS)
VEHICLE INFORMATION
DATABASE REPORT

Page: 2

Manufacturer: 560 MAZDA MOTOR C Vehicle ID : 9EC13BS1 Configuration: 3

EVAPORATIVE SYSTEMS

Evaporative Emission Code	Canister Type	Canister Bed Vol(CC)	Canister Working Cap	No of Canisters	Alt Canister Loading Rate	Evaporative Emission Control System
6RSA	B Evap and Refue	2450	135 grams HC	1		102 CANISTER

FUEL SYSTEMS

Fuel System Mfr/Model	Main Tank Capacity	Auxiliary Tank Capacity	Fuel Type	Fuel System
SEE COMM.	64 LITERS		G GASOLINE	8 ELECTRIC MPI - SEQUENTIAL

TEST PROCEDURE FUEL

Test Proc	Fuel Type	SS DB	SS ID	TP SIL	TP DD	TP ID	Side Fan	AC HP	ETW CoastDn	Mfr CoastDn	Dyno HP	Target Coeff A	Target Coeff B	Target Coeff C	Set Coeff A	Set Coeff B	Set Coeff C
3	23	A	HWA	1			N	N	3500			33.26	.691	.01376	12.443	.3641	.01389
25	23	A	FTA	1			N	N	3500			33.26	.691	.01376	12.443	.3641	.01389
90	23	A	US6A	1			N	N	3500			33.26	.691	.01376	10.434	.495	.01287
95	23	A		1			N	N	3500			33.26	.691	.01376	11.222	.4589	.01298

Initial Submission on 2/8/08
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CERTIFICATION AND FUEL ECONOMY INFORMATION SYSTEM (CFEIS)
VEHICLE INFORMATION CAP2000
DATABASE REPORT

Page: 1

Manufacturer:	560 MAZDA MOTOR CORP.	Configuration:	0
Vehicle ID:	4ECL3VS2	Model Year:	2009
Division:	1 MAZDA	Carline:	8 MAZDA RX-8
Drive:	3 FRONT DRIVE STR LEFT	Catalyst:	3 3-WAY CATALYST
Source:	01 MANUFACTURER	Model Year From/To:	2004
Test Group:	9TKXV01.35AA	Vehicle Purpose:	01 CERT EMISSION
Evaporative/Refueling Family:	9TKXR0115GBK	Turbo/Supercharger:	N NONE
		Evap System:	1

Engine Information

Engine Code: BL3VSAA4
Engine Type: 01 OTTO SPARK
Crankcase System: 1
Cylinders: 4
Valves/Cylinder: 4
Displacement: 2259.8 CC CUBIC CENTIMETERS
Rated HP: 160
Compression Ratio: 9.7

Exhaust Emission Related Components

15 THREE-WAY CATALYST HEATED O2
35 OTHER ACTIVATED EGR
41 MULTIPLE POINT FUEL INJECTION
60 DETONATION SENSOR
62 ELECTRONIC CONTROLS-DIGITAL
99 OTHER

Catalyst Preheating Method

0 NONE

Ignition Timing

1: 8
1 Before/After: BEFORE
RPM: 700
RPM Tolerance: 50
Degree Tolerance: 6
Gear: N NEUTRAL
Idling

RPM: 700
RPM Tolerance: 50
Gear: N NEUTRAL
A/C: YES

Design Vehicle Weights

Curb: 3093
ETW: 3375
ETW Wt Units: P
Gross:
Full Tank Axle: 1858
Empty Tank Axle: 1839
40% Axle: 1847
Mfr Wt Units: P

Tire

Manufacturer: MICHELIN
Construction: 2 RADIAL
Size: SEE COMM.
Pressure Front: 32
Pressure Rear: 32
Pressure Units: PSI POUNDS PER SQUARE INCH

Odometer Correction

Sign: -
Initial: 0
Factor: .995
Units: M

Drive Train

Trans Config: 17 S4 SEMI-AUTOMATIC FOUR SPEED
Axle Ratio: 4.15
NV Ratio: 41

Sales Areas

FA FEDERAL ALL ALTITUDE
CA CALIFORNIA

Multimode

Comments: TIRE AND RIM SIZE: P215/50R17 93V MAZDA 6 2.3L CALIF S4. FUEL INJECTOR SYSTEM MFR: BOSCH VI CARRY-OVER FROM 2004MY MAZDA6 2.3L CALIF MODEL. EVAP CARRY-OVER/ACROSS TO 2009MY LEV-II EVAP PLASTIC FUEL TANK FAMILY. EVAP CARRY-OVER/ACROSS TO 2009MY LEV-II EVAP METAL FUEL TANK FAMILY. TIRE AND RIM SIZE P215/50R17 93V MAZDA 6 CALIF S4 FUEL INJECTOR SYSTEM MFR BOSCH

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CERTIFICATION AND FUEL ECONOMY INFORMATION SYSTEM (CFEIS)
VEHICLE INFORMATION
DATABASE REPORT

Page: 2

Manufacturer: 560 MAZDA MOTOR C Vehicle ID : 4ECL3VS2 Configuration: 0

EVAPORATIVE SYSTEMS

Evaporative Emission Code	Canister Type	Canister Bed Vol(CC)	Canister Working Cap	No of Canisters	Alt Canister Loading Rate	Evaporative Emission Control System
4LTA	B Evap and Refue	2500	125 grams HC	1		102 CANISTER

FUEL SYSTEMS

Fuel System Mfr/Model	Main Tank Capacity	Auxiliary Tank Capacity	Fuel Type	Fuel System
SEE COMM.	68 LITERS		G GASOLINE	8 ELECTRIC MPI - SEQUENTIAL

TEST PROCEDURE FUEL

Test Proc	Fuel Type	SS DB	SS ID	TP SIL	TP DD	TP ID	Side Fan	AC HP	ETW CoastDn	Mfr CoastDn	Dyno HP	Target Coeff A	Target Coeff B	Target Coeff C	Set Coeff A	Set Coeff B	Set Coeff C
15	61	A	1				N	Y	3375	15.62		34.07	.4921	.01662	10.45	.2052	.01839
24	61	A	1				N	Y	3375	15.62		34.07	.4921	.01662	10.45	.2052	.01839

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CERTIFICATION AND FUEL ECONOMY INFORMATION SYSTEM (CFEIS)
VEHICLE INFORMATION CAP2000
DATABASE REPORT

Page: 1

Manufacturer:	560 MAZDA MOTOR CORP.	Configuration:	1
Vehicle ID:	4ECL3VS2	Model Year:	2009
Division:	1 MAZDA	Carline:	8 MAZDA RX-8
Drive:	3 FRONT DRIVE STR LEFT	Catalyst:	3 3-WAY CATALYST
Source:	01 MANUFACTURER	Model Year From/To:	2004
Test Group:	9TKXV01.35AA	Vehicle Purpose:	01 CERT EMISSION
Evaporative/Refueling Family:	9TKXR0115GBK	Turbo/Supercharger:	N NONE
		Evap System:	1

Engine Information

Engine Code: BL3VSAA4
Engine Type: 01 OTTO SPARK
Crankcase System: 1
Cylinders: 4
Valves/Cylinder: 4
Displacement: 2259.8 CC CUBIC CENTIMETERS
Rated HP: 160
Compression Ratio: 9.7

Ignition Timing

1: 8
1 Before/After: BEFORE
RPM: 700
RPM Tolerance: 50
Degree Tolerance: 6
Gear: N NEUTRAL
Idling

RPM: 700
RPM Tolerance: 50
Gear: N NEUTRAL
A/C: YES

Design Vehicle Weights

Curb: 3093
ETW: 3375
ETW Wt Units: P
Gross:
Full Tank Axle: 1858
Empty Tank Axle: 1839
40% Axle: 1847
Mfr Wt Units: P

Exhaust Emission Related Components

15 THREE-WAY CATALYST HEATED O2
35 OTHER ACTIVATED EGR
41 MULTIPLE POINT FUEL INJECTION
60 DETONATION SENSOR
62 ELECTRONIC CONTROLS-DIGITAL
99 OTHER

Catalyst Preheating Method

0 NONE

Tire

Manufacturer: MICHELIN
Construction: 2 RADIAL
Size: SEE COMM.
Pressure Front: 32
Pressure Rear: 32
Pressure Units: PSI POUNDS PER SQUARE INCH

Odometer Correction

Sign: -
Initial: 0
Factor: .995
Units: M

Drive Train

Trans Config: 17 S4 SEMI-AUTOMATIC FOUR SPEED
Axle Ratio: 4.15
NV Ratio: 41

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CERTIFICATION AND FUEL ECONOMY INFORMATION SYSTEM (CFEIS)
VEHICLE INFORMATION
DATABASE REPORT

Page: 2

Manufacturer: 560 MAZDA MOTOR C

Vehicle ID : 4ECL3VS2

Configuration: 1

EVAPORATIVE SYSTEMS

Evaporative Emission Code	Canister Type	Canister Bed Vol(CC)	Canister Working Cap	No of Canisters	Alt Canister Loading Rate	Evaporative Emission Control System
4LTA	B Evap and Refue	2500	125 grams HC	1		102 CANISTER

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Fuel System Mfr/Model	Main Tank Capacity	Auxiliary Tank Capacity	Fuel Type	Fuel System
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TEST PROCEDURE FUEL

Test Proc	Fuel Type	SS DB	SS ID	TP SIL	TP DD	TP ID	Side Fan	AC HP	ETW CoastDn	Mfr CoastDn	Dyno HP	Target Coeff A	Target Coeff B	Target Coeff C	Set Coeff A	Set Coeff B	Set Coeff C
3	23	A	HWA	1			N	Y	3375	15.62		34.07	.4921	.01662	10.435	.2051	.0181
25	23	A	FTA	1			N	Y	3375	15.62		34.07	.4921	.01662	10.42	.2053	.01832
27	23	A		1			N	Y	3375	15.62		34.07	.4921	.01662	10.42	.2053	.01832
35	23	A	FTA	1			N	Y	3375	15.62		34.07	.4921	.01662	10.42	.2053	.01832
38	23	A		1			N	Y	3375	15.62		34.07	.4921	.01662	10.42	.2053	.01832
90	23	A	US6A	1			N	Y	3375	15.62		34.07	.4921	.01662	10.435	.2051	.0181
95	23	A		1			N	Y	3375	15.62		34.07	.4921	.01662	10.435	.2051	.0181

Initial Submission on 2/8/08
Update Submission on 12/5/08

Date: 28-JAN-08
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CERTIFICATION AND FUEL ECONOMY INFORMATION SYSTEM (CFEIS)
SUMMARY SHEET
DATABASE REPORT

EMISSION DATA VEHICLES

Model Year: 2009 Vehicle Manufacturer: 560 MAZDA MOTOR CORP.
Summary Sheet Version Number: 0 Engine Manufacturer: TKX MAZDA MOTOR CORP.
Summary Sheet Index Number: 560T2-01 Certificate Number:
Test Group: 9TKXV01.35AA Vehicle Sales Area: CA CALIFORNIA
Engine System: 1 FA FEDERAL ALL ALTITUDE
Evaporative/Refueling Family: 9TKXR0115GBK
Evaporative System: 1

Vehicle ID:	9EC13BS1	Transmission:	26 L6
Vehicle Configuration:	2	Engine Code:	913BSAA1
Carline Name:	MAZDA RX-8	Axle Ratio:	4.3
Fuel:	TIER 2 UNLEADED	N/V Ratio:	33.5
Displacement:	1309.4 CC	Compression Ratio:	10
Rated HP:	212	High Altitude:	
Test Weight:	3500	Test Procedure Code:	11 COLD CO
Running Change:		Test Number:	1083085
Fuel System:	ELECTRIC MPI - SEQUENTIAL	Test Sales Area:	CALIFORNIA
Catalyst:	3-WAY CATALYST	Turbo/Supercharger:	NONE
Dynamometer Power A			
Dynamometer Target Coefficients:	a = 33.26	b = .691	c = .01376
Dynamometer Set Coefficients:	a = 11.486	b = .4543	c = .01338
Aged Emission Components:	N/A		

Exhaust Emission Related Components:	10 AIR INJECTION PUMP	15 THREE-WAY CATALYST HEATED O2
	41 MULTIPLE POINT FUEL INJECTION	60 DETONATION SENSOR
	62 ELECTRONIC CONTROLS-DIGITAL	

Exhaust Emission

Useful Life Emissions	Result	RAF	Additive DF	Multiplicative DF	Certification Level	Emission Standard	Tier
50,000 CO-COLD	4.1195		.14	1	4.2595	010.0000	L2

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EMISSION DATA VEHICLES

Model Year: 2009 Vehicle Manufacturer: 560 MAZDA MOTOR CORP.
Summary Sheet Version Number: 0 Engine Manufacturer: TKX MAZDA MOTOR CORP.
Summary Sheet Index Number: 560T2-01 Certificate Number:
Test Group: 9TKXV01.35AA Vehicle Sales Area: CA CALIFORNIA
Engine System: 1 FA FEDERAL ALL ALTITUDE
Evaporative/Refueling Family: 9TKXR0115GBK
Evaporative System: 1

Vehicle ID:	9EC13BS1	Transmission:	26 L6
Vehicle Configuration:	3	Engine Code:	913BSAA1
Carline Name:	MAZDA RX-8	Axle Ratio:	4.3
Fuel:	CARB Phase II Gasoline	N/V Ratio:	33.5
Displacement:	1309.4 CC	Compression Ratio:	10
Rated HP:	212	High Altitude:	
Test Weight:	3500	Test Procedure Code:	3 HWFE (HIGHWAY TEST)
Running Change:		Test Number:	1083087
Fuel System:	ELECTRIC MPI - SEQUENTIAL	Test Sales Area:	CALIFORNIA
Catalyst:	3-WAY CATALYST	Turbo/Supercharger:	NONE
Dynamometer Power A			
Dynamometer Target Coefficients:	a = 33.26	b = .691	c = .01376
Dynamometer Set Coefficients:	a = 12.443	b = .3641	c = .01389
Aged Emission Components:	N/A		

Exhaust Emission Related Components:	10	AIR INJECTION PUMP	15	THREE-WAY CATALYST HEATED O2
	41	MULTIPLE POINT FUEL INJECTION	60	DETONATION SENSOR
	62	ELECTRONIC CONTROLS-DIGITAL		

Exhaust Emission

Useful Life Emissions	Result	RAF	Additive DF	Multiplicative DF	Certification Level	Emission Standard	Tier
120,000 NOX-HWY	.00814		.012	1	.0201	000.0900	L2
50,000 NOX-HWY	.00814		.005	1	.0131	000.0700	L2

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EMISSION DATA VEHICLES

Model Year: 2009 Vehicle Manufacturer: 560 MAZDA MOTOR CORP.
Summary Sheet Version Number: 0 Engine Manufacturer: TKX MAZDA MOTOR CORP.
Summary Sheet Index Number: 560T2-01 Certificate Number:
Test Group: 9TKXV01.35AA Vehicle Sales Area: CA CALIFORNIA
Engine System: 1 FA FEDERAL ALL ALTITUDE
Evaporative/Refueling Family: 9TKXR0115GBK
Evaporative System: 1

Vehicle ID:	9EC13BS1	Transmission:	26 L6
Vehicle Configuration:	3	Engine Code:	913BSAA1
Carline Name:	MAZDA RX-8	Axle Ratio:	4.3
Fuel:	CARB Phase II Gasoline	N/V Ratio:	33.5
Displacement:	1309.4 CC	Compression Ratio:	10
Rated HP:	212	High Altitude:	
Test Weight:	3500	Test Procedure Code:	25 CA FUEL 2 DAY EXH (BUTANE LOAD)
Running Change:		Test Number:	1083086
Fuel System:	ELECTRIC MPI - SEQUENTIAL	Test Sales Area:	CALIFORNIA
Catalyst:	3-WAY CATALYST	Turbo/Supercharger:	NONE
Dynamometer Power A			
Dynamometer Target Coefficients:	a = 33.26	b = .691	c = .01376
Dynamometer Set Coefficients:	a = 12.443	b = .3641	c = .01389
Aged Emission Components:	N/A		
Exhaust Emission Related Components:	10 AIR INJECTION PUMP	15 THREE-WAY CATALYST HEATED O2	
	41 MULTIPLE POINT FUEL INJECTION	60 DETONATION SENSOR	
	62 ELECTRONIC CONTROLS-DIGITAL		

Exhaust Emission

Useful Life Emissions	Result	RAF	Additive DF	Multiplicative DF	Certification Level	Emission Standard	Tier
120,000 CO	.9886		.35	1	1.3386	004.2000	L2
50,000 CO	.9886		.14	1	1.1286	003.4000	L2
120,000 NMOG	.03787	1	.0104	1	.0483	000.0900	L2
50,000 NMOG	.03787	1	.0041	1	.0420	000.0750	L2
120,000 NOX	.01567		.012	1	.0277	000.0700	L2
50,000 NOX	.01567		.005	1	.0207	000.0500	L2

* SFTP(Supplemental Federal Test Procedure) test numbers for the composite HC-NM+NOX and CO(optional) certificate levels: 1083088(US06), 1083089(SC03).

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EMISSION DATA VEHICLES

Model Year: 2009 Vehicle Manufacturer: 560 MAZDA MOTOR CORP.
 Summary Sheet Version Number: 0 Engine Manufacturer: TKX MAZDA MOTOR CORP.
 Summary Sheet Index Number: 560T2-01 Certificate Number:
 Test Group: 9TKXV01.35AA Vehicle Sales Area: CA CALIFORNIA
 Engine System: 1 FA FEDERAL ALL ALTITUDE
 Evaporative/Refueling Family: 9TKXR0115GBK
 Evaporative System: 1

 Vehicle ID: 9EC13BS1 Transmission: 26 L6
 Vehicle Configuration: 3 Engine Code: 913BSAA1
 Carline Name: MAZDA RX-8 Axle Ratio: 4.3
 Fuel: CARB Phase II Gasoline N/V Ratio: 33.5
 Displacement: 1309.4 CC Compression Ratio: 10
 Rated HP: 212 High Altitude:
 Test Weight: 3500 Test Procedure Code: 90 US06
 Running Change: Test Number: 1083088
 Fuel System: ELECTRIC MPI - SEQUENTIAL Test Sales Area: CALIFORNIA
 Catalyst: 3-WAY CATALYST Turbo/Supercharger: NONE
 Dynamometer Power A
 Dynamometer Target Coefficients: a = 33.26 b = .691 c = .01376
 Dynamometer Set Coefficients: a = 10.434 b = .495 c = .01287
 Aged Emission Components: N/A

Exhaust Emission Related Components: 10 AIR INJECTION PUMP 15 THREE-WAY CATALYST HEATED O2
 41 MULTIPLE POINT FUEL INJECTION 60 DETONATION SENSOR
 62 ELECTRONIC CONTROLS-DIGITAL

 Exhaust Emission

Useful Life Emissions	Result	RAF	Additive DF	Multiplicative DF	Certification Level	Emission Standard	Tier
4,000 CO-US06	1.3191		0		1.3191	008.0000	L2
4,000 HC-NM+NOX-USO	.0345		0		.0345	000.1400	L2

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EMISSION DATA VEHICLES

Model Year: 2009 Vehicle Manufacturer: 560 MAZDA MOTOR CORP.
Summary Sheet Version Number: 0 Engine Manufacturer: TKX MAZDA MOTOR CORP.
Summary Sheet Index Number: 560T2-01 Certificate Number:
Test Group: 9TKXV01.35AA Vehicle Sales Area: CA CALIFORNIA
Engine System: 1 FA FEDERAL ALL ALTITUDE
Evaporative/Refueling Family: 9TKXR0115GBK
Evaporative System: 1

Vehicle ID:	9EC13BS1	Transmission:	26 L6
Vehicle Configuration:	3	Engine Code:	913BSAA1
Carline Name:	MAZDA RX-8	Axle Ratio:	4.3
Fuel:	CARB Phase II Gasoline	N/V Ratio:	33.5
Displacement:	1309.4 CC	Compression Ratio:	10
Rated HP:	212	High Altitude:	
Test Weight:	3500	Test Procedure Code:	95 SC03
Running Change:		Test Number:	1083089
Fuel System:	ELECTRIC MPI - SEQUENTIAL	Test Sales Area:	CALIFORNIA
Catalyst:	3-WAY CATALYST	Turbo/Supercharger:	NONE
Dynamometer Power A			
Dynamometer Target Coefficients:	a = 33.26	b = .691	c = .01376
Dynamometer Set Coefficients:	a = 11.222	b = .4589	c = .01298
Aged Emission Components:	N/A		
Exhaust Emission Related Components:	10 AIR INJECTION PUMP	15 THREE-WAY CATALYST HEATED O2	
	41 MULTIPLE POINT FUEL INJECTION	60 DETONATION SENSOR	
	62 ELECTRONIC CONTROLS-DIGITAL		

Exhaust Emission

Useful Life Emissions	Result	RAF	Additive DF	Multiplicative DF	Certification Level	Emission Standard	Tier
4,000 CO-SC03	1.0253		0		1.0253	002.7000	L2
4,000 HC-NM+NOX-SCO	.01935		0		.0194	000.2000	L2

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EMISSION DATA VEHICLES

Model Year: 2009 Vehicle Manufacturer: 560 MAZDA MOTOR CORP.
Summary Sheet Version Number: 0 Engine Manufacturer: TKX MAZDA MOTOR CORP.
Summary Sheet Index Number: 560T2-01 Certificate Number:
Test Group: 9TKXV01.35AA Vehicle Sales Area: CA CALIFORNIA
Engine System: 1 FA FEDERAL ALL ALTITUDE
Evaporative/Refueling Family: 9TKXR0115GBK
Evaporative System: 1

Vehicle ID:	9EC13BS1	Transmission:	26 L6
Vehicle Configuration:	2	Engine Code:	913BSAA1
Carline Name:	MAZDA RX-8	Axle Ratio:	4.3
Fuel:	TIER 2 UNLEADED	N/V Ratio:	33.5
Displacement:	1309.4 CC	Compression Ratio:	10
Rated HP:	212	High Altitude:	
Test Weight:	3500	Test Procedure Code:	11 COLD CO
Running Change:		Test Number:	1083085
Fuel System:	ELECTRIC MPI - SEQUENTIAL	Test Sales Area:	FEDERAL ALL ALTITUDE
Catalyst:	3-WAY CATALYST	Turbo/Supercharger:	NONE
Dynamometer Power A			
Dynamometer Target Coefficients:	a = 33.26	b = .691	c = .01376
Dynamometer Set Coefficients:	a = 11.486	b = .4543	c = .01338
Aged Emission Components:	N/A		

Exhaust Emission Related Components:	10	AIR INJECTION PUMP	15	THREE-WAY CATALYST HEATED O2
	41	MULTIPLE POINT FUEL INJECTION	60	DETONATION SENSOR
	62	ELECTRONIC CONTROLS-DIGITAL		

Exhaust Emission

Useful Life Emissions	Result	RAF	Additive DF	Multiplicative DF	Certification Level	Emission Standard	Tier
50,000 CO-COLD	4.1195		.14	1	4.2595	010.0000	B5

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EMISSION DATA VEHICLES

Model Year: 2009 Vehicle Manufacturer: 560 MAZDA MOTOR CORP.
 Summary Sheet Version Number: 0 Engine Manufacturer: TKX MAZDA MOTOR CORP.
 Summary Sheet Index Number: 560T2-01 Certificate Number:
 Test Group: 9TKXV01.35AA Vehicle Sales Area: CA CALIFORNIA
 Engine System: 1 FA FEDERAL ALL ALTITUDE
 Evaporative/Refueling Family: 9TKXR0115GBK
 Evaporative System: 1

 Vehicle ID: 9EC13BS1 Transmission: 26 L6
 Vehicle Configuration: 3 Engine Code: 913BSAA1
 Carline Name: MAZDA RX-8 Axle Ratio: 4.3
 Fuel: CARB Phase II Gasoline N/V Ratio: 33.5
 Displacement: 1309.4 CC Compression Ratio: 10
 Rated HP: 212 High Altitude:
 Test Weight: 3500 Test Procedure Code: 3 HWFE (HIGHWAY TEST)
 Running Change: Test Number: 1083087
 Fuel System: ELECTRIC MPI - SEQUENTIAL Test Sales Area: FEDERAL ALL ALTITUDE
 Catalyst: 3-WAY CATALYST Turbo/Supercharger: NONE
 Dynamometer Power A
 Dynamometer Target Coefficients: a = 33.26 b = .691 c = .01376
 Dynamometer Set Coefficients: a = 12.443 b = .3641 c = .01389
 Aged Emission Components: N/A

Exhaust Emission Related Components: 10 AIR INJECTION PUMP 15 THREE-WAY CATALYST HEATED O2
 41 MULTIPLE POINT FUEL INJECTION 60 DETONATION SENSOR
 62 ELECTRONIC CONTROLS-DIGITAL

 Exhaust Emission

Useful Life Emissions	Result	RAF	Additive DF	Multiplicative DF	Certification Level	Emission Standard	Tier
120,000 NOX-HWY	.00814		.012	1	.0201	000.0900	B5
50,000 NOX-HWY	.00814		.005	1	.0131	000.0700	B5

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EMISSION DATA VEHICLES

Model Year: 2009 Vehicle Manufacturer: 560 MAZDA MOTOR CORP.
Summary Sheet Version Number: 0 Engine Manufacturer: TKX MAZDA MOTOR CORP.
Summary Sheet Index Number: 560T2-01 Certificate Number:
Test Group: 9TKXV01.35AA Vehicle Sales Area: CA CALIFORNIA
Engine System: 1 FA FEDERAL ALL ALTITUDE
Evaporative/Refueling Family: 9TKXR0115GBK
Evaporative System: 1

Vehicle ID:	9EC13BS1	Transmission:	26 L6
Vehicle Configuration:	3	Engine Code:	913BSAA1
Carline Name:	MAZDA RX-8	Axle Ratio:	4.3
Fuel:	CARB Phase II Gasoline	N/V Ratio:	33.5
Displacement:	1309.4 CC	Compression Ratio:	10
Rated HP:	212	High Altitude:	
Test Weight:	3500	Test Procedure Code:	25 CA FUEL 2 DAY EXH (BUTANE LOAD)
Running Change:		Test Number:	1083086
Fuel System:	ELECTRIC MPI - SEQUENTIAL	Test Sales Area:	FEDERAL ALL ALTITUDE
Catalyst:	3-WAY CATALYST	Turbo/Supercharger:	NONE
Dynamometer Power A			
Dynamometer Target Coefficients:	a = 33.26	b = .691	c = .01376
Dynamometer Set Coefficients:	a = 12.443	b = .3641	c = .01389
Aged Emission Components:	N/A		
Exhaust Emission Related Components:	10 AIR INJECTION PUMP	15 THREE-WAY CATALYST HEATED O2	
	41 MULTIPLE POINT FUEL INJECTION	60 DETONATION SENSOR	
	62 ELECTRONIC CONTROLS-DIGITAL		

Exhaust Emission

Useful Life Emissions	Result	RAF	Additive DF	Multiplicative DF	Certification Level	Emission Standard	Tier
120,000 CO	.9886		.35	1	1.3386	004.2000	B5
50,000 CO	.9886		.14	1	1.1286	003.4000	B5
120,000 CO-COMP	1.444719		.35		1.4447	004.2000	B5
120,000 HC-NM+NOX-COM	.05745		.022		.0574	000.6500	B5
120,000 NMOG	.03787	1	.0104	1	.0483	000.0900	B5
50,000 NMOG	.03787	1	.0041	1	.0420	000.0750	B5
120,000 NOX	.01567		.012	1	.0277	000.0700	B5
50,000 NOX	.01567		.005	1	.0207	000.0500	B5

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EMISSION DATA VEHICLES

Summary Sheet Version Number:	0	Vehicle Manufacturer:	560 MAZDA MOTOR CORP.
Summary Sheet Index Number:	560T2-01	Engine Manufacturer:	TKX MAZDA MOTOR CORP.
Test Group:	9TKXV01.35AA	Certificate Number:	
Engine System:	1	Vehicle Sales Area:	CA CALIFORNIA
Evaporative/Refueling Family:	9TKXR0115GBK		FA FEDERAL ALL ALTITUDE
Evaporative System:	1		

Vehicle ID:	9EC13BS1	Transmission:	26 L6
Vehicle Configuration:	3	Engine Code:	913BSAA1
Carline Name:	MAZDA RX-8	Axle Ratio:	4.3
Fuel:	CARB Phase II Gasoline	N/V Ratio:	33.5
Displacement:	1309.4 CC	Compression Ratio:	10
Rated HP:	212	High Altitude:	
Test Weight:	3500	Test Procedure Code:	25 CA FUEL 2 DAY EXH (BUTANE LOAD)
Running Change:		Test Number:	1083086
Fuel System:	ELECTRIC MPI - SEQUENTIAL	Test Sales Area:	FEDERAL ALL ALTITUDE
Catalyst:	3-WAY CATALYST	Turbo/Supercharger:	NONE
Dynamometer Power A			
Dynamometer Target Coefficients:	a = 33.26	b = .691	c = .01376
Dynamometer Set Coefficients:	a = 12.443	b = .3641	c = .01389
Aged Emission Components:	N/A		
Exhaust Emission Related Components:	10 AIR INJECTION PUMP	15 THREE-WAY CATALYST HEATED O2	
	41 MULTIPLE POINT FUEL INJECTION	60 DETONATION SENSOR	
	62 ELECTRONIC CONTROLS-DIGITAL		

* SFTP(Supplemental Federal Test Procedure) test numbers for the composite HC-NM+NOX and CO(optional) certificate levels: 1083088(US06), 1083089(SC03).

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EMISSION DATA VEHICLES

Model Year: 2009 Vehicle Manufacturer: 560 MAZDA MOTOR CORP.
Summary Sheet Version Number: 0 Engine Manufacturer: TKX MAZDA MOTOR CORP.
Summary Sheet Index Number: 560T2-01 Certificate Number:
Test Group: 9TKXV01.35AA Vehicle Sales Area: CA CALIFORNIA
Engine System: 1 FA FEDERAL ALL ALTITUDE
Evaporative/Refueling Family: 9TKXR0115GBK
Evaporative System: 1

Vehicle ID: 9EC13BS1 Transmission: 26 L6
Vehicle Configuration: 3 Engine Code: 913BSAA1
Carline Name: MAZDA RX-8 Axle Ratio: 4.3
Fuel: CARB Phase II Gasoline N/V Ratio: 33.5
Displacement: 1309.4 CC Compression Ratio: 10
Rated HP: 212 High Altitude:
Test Weight: 3500 Test Procedure Code: 90 US06
Running Change: Test Number: 1083088
Fuel System: ELECTRIC MPI - SEQUENTIAL Test Sales Area: FEDERAL ALL ALTITUDE
Catalyst: 3-WAY CATALYST Turbo/Supercharger: NONE
Dynamometer Power A
Dynamometer Target Coefficients: a = 33.26 b = .691 c = .01376
Dynamometer Set Coefficients: a = 10.434 b = .495 c = .01287
Aged Emission Components: N/A
Exhaust Emission Related Components: 10 AIR INJECTION PUMP 15 THREE-WAY CATALYST HEATED O2
41 MULTIPLE POINT FUEL INJECTION 60 DETONATION SENSOR
62 ELECTRONIC CONTROLS-DIGITAL

Exhaust Emission

Useful Life Emissions	Result	RAF	Additive DF	Multiplicative DF	Certification Level	Emission Standard	Tier
4,000 CO-US06	1.3191		0		1.3191	008.0000	B5
4,000 HC-NM+NOX-USO	.0345		0		.0345	000.1400	B5

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EMISSION DATA VEHICLES

Model Year: 2009 Vehicle Manufacturer: 560 MAZDA MOTOR CORP.
 Summary Sheet Version Number: 0 Engine Manufacturer: TKX MAZDA MOTOR CORP.
 Summary Sheet Index Number: 560T2-01 Certificate Number:
 Test Group: 9TKXV01.35AA Vehicle Sales Area: CA CALIFORNIA
 Engine System: 1 FA FEDERAL ALL ALTITUDE
 Evaporative/Refueling Family: 9TKXR0115GBK
 Evaporative System: 1

 Vehicle ID: 9EC13BS1 Transmission: 26 L6
 Vehicle Configuration: 3 Engine Code: 913BSAA1
 Carline Name: MAZDA RX-8 Axle Ratio: 4.3
 Fuel: CARB Phase II Gasoline N/V Ratio: 33.5
 Displacement: 1309.4 CC Compression Ratio: 10
 Rated HP: 212 High Altitude:
 Test Weight: 3500 Test Procedure Code: 95 SC03
 Running Change: Test Number: 1083089
 Fuel System: ELECTRIC MPI - SEQUENTIAL Test Sales Area: FEDERAL ALL ALTITUDE
 Catalyst: 3-WAY CATALYST Turbo/Supercharger: NONE
 Dynamometer Power A
 Dynamometer Target Coefficients: a = 33.26 b = .691 c = .01376
 Dynamometer Set Coefficients: a = 11.222 b = .4589 c = .01298
 Aged Emission Components: N/A
 Exhaust Emission Related Components: 10 AIR INJECTION PUMP 15 THREE-WAY CATALYST HEATED O2
 41 MULTIPLE POINT FUEL INJECTION 60 DETONATION SENSOR
 62 ELECTRONIC CONTROLS-DIGITAL

Exhaust Emission

Useful Life Emissions	Result	RAF	Additive DF	Multiplicative DF	Certification Level	Emission Standard	Tier
4,000 CO-SC03	1.0253		0		1.0253	002.7000	B5
4,000 HC-NM+NOX-SCO	.01935		0		.0194	000.2000	B5

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EMISSION DATA VEHICLES

Model Year: 2009 Vehicle Manufacturer: 560 MAZDA MOTOR CORP.
 Summary Sheet Version Number: 0 Engine Manufacturer: MAZDA MOTOR CORP.
 Summary Sheet Index Number: 560T2-01 Certificate Number:
 Test Group: 9TKXV01.35AA Vehicle Sales Area: FA FEDERAL ALL ALTITUDE
 Engine System: 1 CA CALIFORNIA
 Evaporative/Refueling Family: 9TKXR0115GBK
 Evaporative System: 1

 Vehicle ID: 4ECL3VS2 Transmission: 17 S4
 Vehicle Configuration: 0 Engine Code: BL3VSAA4
 Carline Name: MAZDA RX-8 Axle Ratio: 4.15
 Fuel: TIER 2 UNLEADED N/V Ratio: 41
 Displacement: 2259.8 CC Compression Ratio: 9.7
 Rated HP: 160 High Altitude:
 Test Weight: 3375 Test Procedure Code: 15 SPITBACK TEST
 Running Change: Test Number: 1051339
 Fuel System: ELECTRIC MPI - SEQUENTIAL Test Sales Area: CALIFORNIA
 Catalyst: 3-WAY CATALYST
 Dynamometer Power Absorption: Turbo/Supercharger: NONE
 Dynamometer Target Coefficients: a = 34.07 b = .4921 c = .01662
 Dynamometer Set Coefficients: a = 10.45 b = .2052 c = .01839
 Aged Emission Components: N/A
 Exhaust Emission Related Component 15 THREE-WAY CATALYST HEATED O2 35 OTHER ACTIVATED EGR
 41 MULTIPLE POINT FUEL INJECTION 60 DETONATION SENSOR
 62 ELECTRONIC CONTROLS-DIGITAL 99 OTHER

Evaporative Emission

Useful Life	Emissions	Result	Additive DF	Multiplicative DF	Certification Level	Emission Standard	Tier
120,000	SPITBACK	0	0	1	0.0	001.0	C2

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CERTIFICATION AND FUEL ECONOMY INFORMATION SYSTEM (CFEIS)
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EMISSION DATA VEHICLES

Model Year: 2009 Vehicle Manufacturer: 560 MAZDA MOTOR CORP.
 Summary Sheet Version Number: 0 Engine Manufacturer: MAZDA MOTOR CORP.
 Summary Sheet Index Number: 560T2-01 Certificate Number:
 Test Group: 9TKXV01.35AA Vehicle Sales Area: FA FEDERAL ALL ALTITUDE
 Engine System: 1 CA CALIFORNIA
 Evaporative/Refueling Family: 9TKXR0115GBK
 Evaporative System: 1

 Vehicle ID: 4ECL3VS2 Transmission: 17 S4
 Vehicle Configuration: 0 Engine Code: BL3VSAA4
 Carline Name: MAZDA RX-8 Axle Ratio: 4.15
 Fuel: TIER 2 UNLEADED N/V Ratio: 41
 Displacement: 2259.8 CC Compression Ratio: 9.7
 Rated HP: 160 High Altitude:
 Test Weight: 3375 Test Procedure Code: 24 FED FUEL REFUEL (ORVR) (BUTANE)
 Running Change: Test Number: 1051340
 Fuel System: ELECTRIC MPI - SEQUENTIAL Test Sales Area: CALIFORNIA
 Catalyst: 3-WAY CATALYST
 Dynamometer Power Absorption: Turbo/Supercharger: NONE
 Dynamometer Target Coefficients: a = 34.07 b = .4921 c = .01662
 Dynamometer Set Coefficients: a = 10.45 b = .2052 c = .01839
 Aged Emission Components: N/A
 Exhaust Emission Related Component 15 THREE-WAY CATALYST HEATED O2 35 OTHER ACTIVATED EGR
 41 MULTIPLE POINT FUEL INJECTION 60 DETONATION SENSOR
 62 ELECTRONIC CONTROLS-DIGITAL 99 OTHER

Evaporative Emission

Useful Life	Emissions	Result	Additive DF	Multiplicative DF	Certification Level	Emission Standard	Tier
120,000	HC-ORVR	.017	.01	1	.027	000.200	C2

Initial Submission on 2/8/08
 Update Submission on 12/5/08

Date: 28-JAN-08
 Time: 05:47:58 AM

CERTIFICATION AND FUEL ECONOMY INFORMATION SYSTEM (CFEIS)
 SUMMARY SHEET
 DATABASE REPORT

EMISSION DATA VEHICLES

Model Year: 2009 Vehicle Manufacturer: 560 MAZDA MOTOR CORP.
 Summary Sheet Version Number: 0 Engine Manufacturer: MAZDA MOTOR CORP.
 Summary Sheet Index Number: 560T2-01 Certificate Number:
 Test Group: 9TKXV01.35AA Vehicle Sales Area: FA FEDERAL ALL ALTITUDE
 Engine System: 1 CA CALIFORNIA
 Evaporative/Refueling Family: 9TKXR0115GBK
 Evaporative System: 1

Vehicle ID:	4ECL3VS2	Transmission:	17 S4
Vehicle Configuration:	1	Engine Code:	BL3VSAA4
Carline Name:	MAZDA RX-8	Axle Ratio:	4.15
Fuel:	CARB Phase II Gasoline	N/V Ratio:	41
Displacement:	2259.8 CC	Compression Ratio:	9.7
Rated HP:	160	High Altitude:	
Test Weight:	3375	Test Procedure Code:	27 CA FUEL 2 DAY EVAP (BUTANE LOAD)
Running Change:		Test Number:	1051342
Fuel System:	ELECTRIC MPI - SEQUENTIAL	Test Sales Area:	CALIFORNIA
Catalyst:	3-WAY CATALYST		
Dynamometer Power Absorption:		Turbo/Supercharger:	NONE
Dynamometer Target Coefficients:	a = 34.07 b = .4921 c = .01662		
Dynamometer Set Coefficients:	a = 10.42 b = .2053 c = .01832		
Aged Emission Components:	N/A		
Exhaust Emission Related Component	15 THREE-WAY CATALYST HEATED O2	35 OTHER ACTIVATED EGR	
	41 MULTIPLE POINT FUEL INJECTION	60 DETONATION SENSOR	
	62 ELECTRONIC CONTROLS-DIGITAL	99 OTHER	

Evaporative Emission

Useful Life	Emissions	Result	Additive DF	Multiplicative DF	Certification Level	Emission Standard	Tier
-----	-----	-----	-----	-----	-----	-----	-----
150,000	HC-TEV-2D	.3955	.08	1	.476	000.650	C2

Initial Submission on 2/8/08
 Update Submission on 12/5/08

Date: 28-JAN-08
Time: 05:47:58 AM

CERTIFICATION AND FUEL ECONOMY INFORMATION SYSTEM (CFEIS)
SUMMARY SHEET
DATABASE REPORT

EMISSION DATA VEHICLES

Model Year: 2009 Vehicle Manufacturer: 560 MAZDA MOTOR CORP.
Summary Sheet Version Number: 0 Engine Manufacturer: MAZDA MOTOR CORP.
Summary Sheet Index Number: 560T2-01 Certificate Number:
Test Group: 9TKXV01.35AA Vehicle Sales Area: FA FEDERAL ALL ALTITUDE
Engine System: 1 CA CALIFORNIA
Evaporative/Refueling Family: 9TKXR0115GBK
Evaporative System: 1

Vehicle ID: 4ECL3VS2 Transmission: 17 S4
Vehicle Configuration: 1 Engine Code: BL3VSAA4
Carline Name: MAZDA RX-8 Axle Ratio: 4.15
Fuel: CARB Phase II Gasoline N/V Ratio: 41
Displacement: 2259.8 CC Compression Ratio: 9.7
Rated HP: 160 High Altitude:
Test Weight: 3375 Test Procedure Code: 38 CA FUEL 3 DAY EVAP (BUTANE LOAD)
Running Change: Test Number: 1051344
Fuel System: ELECTRIC MPI - SEQUENTIAL Test Sales Area: CALIFORNIA
Catalyst: 3-WAY CATALYST
Dynamometer Power Absorption: Turbo/Supercharger: NONE
Dynamometer Target Coefficients: a = 34.07 b = .4921 c = .01662
Dynamometer Set Coefficients: a = 10.42 b = .2053 c = .01832
Aged Emission Components: N/A
Exhaust Emission Related Component 15 THREE-WAY CATALYST HEATED O2 35 OTHER ACTIVATED EGR
41 MULTIPLE POINT FUEL INJECTION 60 DETONATION SENSOR
62 ELECTRONIC CONTROLS-DIGITAL 99 OTHER

Evaporative Emission

Useful Life	Emissions	Result	Additive DF	Multiplicative DF	Certification Level	Emission Standard	Tier
150,000	HC-RL	.0012	0	1	.001	000.050	C2
150,000	HC-TEV-3D	.3331	.08	1	.413	000.500	C2

Initial Submission on 2/8/08
Update Submission on 12/5/08

Date: 28-JAN-08
 Time: 05:47:58 AM

CERTIFICATION AND FUEL ECONOMY INFORMATION SYSTEM (CFEIS)
 SUMMARY SHEET
 DATABASE REPORT

EMISSION DATA VEHICLES

Model Year: 2009 Vehicle Manufacturer: 560 MAZDA MOTOR CORP.
 Summary Sheet Version Number: 0 Engine Manufacturer: MAZDA MOTOR CORP.
 Summary Sheet Index Number: 560T2-01 Certificate Number:
 Test Group: 9TKXV01.35AA Vehicle Sales Area: FA FEDERAL ALL ALTITUDE
 Engine System: 1 CA CALIFORNIA
 Evaporative/Refueling Family: 9TKXR0115GBK
 Evaporative System: 1

Vehicle ID:	4ECL3VS2	Transmission:	17 S4
Vehicle Configuration:	0	Engine Code:	BL3VSAA4
Carline Name:	MAZDA RX-8	Axle Ratio:	4.15
Fuel:	TIER 2 UNLEADED	N/V Ratio:	41
Displacement:	2259.8 CC	Compression Ratio:	9.7
Rated HP:	160	High Altitude:	
Test Weight:	3375	Test Procedure Code:	15 SPITBACK TEST
Running Change:		Test Number:	1051339
Fuel System:	ELECTRIC MPI - SEQUENTIAL	Test Sales Area:	FEDERAL ALL ALTITUDE
Catalyst:	3-WAY CATALYST		
Dynamometer Power Absorption:		Turbo/Supercharger:	NONE
Dynamometer Target Coefficients:	a = 34.07 b = .4921 c = .01662		
Dynamometer Set Coefficients:	a = 10.45 b = .2052 c = .01839		
Aged Emission Components:	N/A		
Exhaust Emission Related Component	15 THREE-WAY CATALYST HEATED O2	35 OTHER ACTIVATED EGR	
	41 MULTIPLE POINT FUEL INJECTION	60 DETONATION SENSOR	
	62 ELECTRONIC CONTROLS-DIGITAL	99 OTHER	

Evaporative Emission

Useful Life	Emissions	Result	Additive DF	Multiplicative DF	Certification Level	Emission Standard	Tier
120,000	SPITBACK	0	0	1	0.0	001.0	T2

Initial Submission on 2/8/08
 Update Submission on 12/5/08

Date: 28-JAN-08
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CERTIFICATION AND FUEL ECONOMY INFORMATION SYSTEM (CFEIS)
 SUMMARY SHEET
 DATABASE REPORT

EMISSION DATA VEHICLES

Model Year: 2009 Vehicle Manufacturer: 560 MAZDA MOTOR CORP.
 Summary Sheet Version Number: 0 Engine Manufacturer: MAZDA MOTOR CORP.
 Summary Sheet Index Number: 560T2-01 Certificate Number:
 Test Group: 9TKXV01.35AA Vehicle Sales Area: FA FEDERAL ALL ALTITUDE
 Engine System: 1 CA CALIFORNIA
 Evaporative/Refueling Family: 9TKXR0115GBK
 Evaporative System: 1

 Vehicle ID: 4ECL3VS2 Transmission: 17 S4
 Vehicle Configuration: 0 Engine Code: BL3VSAA4
 Carline Name: MAZDA RX-8 Axle Ratio: 4.15
 Fuel: TIER 2 UNLEADED N/V Ratio: 41
 Displacement: 2259.8 CC Compression Ratio: 9.7
 Rated HP: 160 High Altitude:
 Test Weight: 3375 Test Procedure Code: 24 FED FUEL REFUEL (ORVR) (BUTANE)
 Running Change: Test Number: 1051340
 Fuel System: ELECTRIC MPI - SEQUENTIAL Test Sales Area: FEDERAL ALL ALTITUDE
 Catalyst: 3-WAY CATALYST
 Dynamometer Power Absorption: Turbo/Supercharger: NONE
 Dynamometer Target Coefficients: a = 34.07 b = .4921 c = .01662
 Dynamometer Set Coefficients: a = 10.45 b = .2052 c = .01839
 Aged Emission Components: N/A
 Exhaust Emission Related Component 15 THREE-WAY CATALYST HEATED O2 35 OTHER ACTIVATED EGR
 41 MULTIPLE POINT FUEL INJECTION 60 DETONATION SENSOR
 62 ELECTRONIC CONTROLS-DIGITAL 99 OTHER

Evaporative Emission

Useful Life	Emissions	Result	Additive DF	Multiplicative DF	Certification Level	Emission Standard	Tier
120,000	HC-ORVR	.017	.01	1	.027	000.200	T2

Initial Submission on 2/8/08
 Update Submission on 12/5/08

Date: 28-JAN-08
 Time: 05:47:58 AM

CERTIFICATION AND FUEL ECONOMY INFORMATION SYSTEM (CFEIS)
 SUMMARY SHEET
 DATABASE REPORT

EMISSION DATA VEHICLES

Model Year: 2009 Vehicle Manufacturer: 560 MAZDA MOTOR CORP.
 Summary Sheet Version Number: 0 Engine Manufacturer: MAZDA MOTOR CORP.
 Summary Sheet Index Number: 560T2-01 Certificate Number:
 Test Group: 9TKXV01.35AA Vehicle Sales Area: FA FEDERAL ALL ALTITUDE
 Engine System: 1 CA CALIFORNIA
 Evaporative/Refueling Family: 9TKXR0115GBK
 Evaporative System: 1

 Vehicle ID: 4ECL3VS2 Transmission: 17 S4
 Vehicle Configuration: 1 Engine Code: BL3VSAA4
 Carline Name: MAZDA RX-8 Axle Ratio: 4.15
 Fuel: CARB Phase II Gasoline N/V Ratio: 41
 Displacement: 2259.8 CC Compression Ratio: 9.7
 Rated HP: 160 High Altitude:
 Test Weight: 3375 Test Procedure Code: 27 CA FUEL 2 DAY EVAP (BUTANE LOAD)
 Running Change: Test Number: 1051342
 Fuel System: ELECTRIC MPI - SEQUENTIAL Test Sales Area: FEDERAL ALL ALTITUDE
 Catalyst: 3-WAY CATALYST
 Dynamometer Power Absorption: Turbo/Supercharger: NONE
 Dynamometer Target Coefficients: a = 34.07 b = .4921 c = .01662
 Dynamometer Set Coefficients: a = 10.42 b = .2053 c = .01832
 Aged Emission Components: N/A
 Exhaust Emission Related Component 15 THREE-WAY CATALYST HEATED O2 35 OTHER ACTIVATED EGR
 41 MULTIPLE POINT FUEL INJECTION 60 DETONATION SENSOR
 62 ELECTRONIC CONTROLS-DIGITAL 99 OTHER

Evaporative Emission

Useful Life	Emissions	Result	Additive DF	Multiplicative DF	Certification Level	Emission Standard	Tier
120,000	HC-TEV-2D	.396	.08	1	.48	001.20	T2

Initial Submission on 2/8/08
 Update Submission on 12/5/08

Date: 28-JAN-08
 Time: 05:47:58 AM

CERTIFICATION AND FUEL ECONOMY INFORMATION SYSTEM (CFEIS)
 SUMMARY SHEET
 DATABASE REPORT

EMISSION DATA VEHICLES

Model Year: 2009 Vehicle Manufacturer: 560 MAZDA MOTOR CORP.
 Summary Sheet Version Number: 0 Engine Manufacturer: MAZDA MOTOR CORP.
 Summary Sheet Index Number: 560T2-01 Certificate Number:
 Test Group: 9TKXV01.35AA Vehicle Sales Area: FA FEDERAL ALL ALTITUDE
 Engine System: 1 CA CALIFORNIA
 Evaporative/Refueling Family: 9TKXR0115GBK
 Evaporative System: 1

Vehicle ID:	4ECL3VS2	Transmission:	17 S4
Vehicle Configuration:	1	Engine Code:	BL3VSAA4
Carline Name:	MAZDA RX-8	Axle Ratio:	4.15
Fuel:	CARB Phase II Gasoline	N/V Ratio:	41
Displacement:	2259.8 CC	Compression Ratio:	9.7
Rated HP:	160	High Altitude:	
Test Weight:	3375	Test Procedure Code:	38 CA FUEL 3 DAY EVAP (BUTANE LOAD)
Running Change:		Test Number:	1051344
Fuel System:	ELECTRIC MPI - SEQUENTIAL	Test Sales Area:	FEDERAL ALL ALTITUDE
Catalyst:	3-WAY CATALYST		
Dynamometer Power Absorption:		Turbo/Supercharger:	NONE
Dynamometer Target Coefficients:	a = 34.07 b = .4921 c = .01662		
Dynamometer Set Coefficients:	a = 10.42 b = .2053 c = .01832		
Aged Emission Components:	N/A		
Exhaust Emission Related Component	15 THREE-WAY CATALYST HEATED O2	35 OTHER ACTIVATED EGR	
	41 MULTIPLE POINT FUEL INJECTION	60 DETONATION SENSOR	
	62 ELECTRONIC CONTROLS-DIGITAL	99 OTHER	

Evaporative Emission

Useful Life	Emissions	Result	Additive DF	Multiplicative DF	Certification Level	Emission Standard	Tier
120,000	HC-RL	.0012	0	1	.001	000.050	T2
120,000	HC-TEV-3D	.3331	.08	1	.413	000.950	T2

Initial Submission on 2/8/08
 Update Submission on 12/5/08

Date: 28-JAN-08
Time: 05:47:58 AM

CERTIFICATION AND FUEL ECONOMY INFORMATION SYSTEM (CFEIS)
SUMMARY SHEET
DATABASE REPORT

VEHICLES COVERED BY CERTIFICATE

Summary Sheet Version Number: 0	Vehicle Manufacturer: 560	MAZDA MOTOR CORP.
Summary Sheet Index Number: 560T2-01	Engine Manufacturer: TKX	MAZDA MOTOR CORP.
Test Group: 9TKXV01.35AA	Engine System: 1	
Evaporative/Refueling Family: 9TKXR0115GBK	Evaporative System: 1	

Division	Carline	Sales Area Code and Description
-----	-----	-----
MAZDA	8 MAZDA RX-8	CA CALIFORNIA
MAZDA	8 MAZDA RX-8	FA FEDERAL ALL ALTITUDE
-----	-----	-----

Initial Submission on 2/8/08
Update Submission on 12/5/08

9. OBD SYSTEM DESCRIPTION

**Due to business confidentiality, this section is deleted in FOI Copy.
For Confidential Copy, please refer to section 16 of this application document.**

11. AECD DESCRIPTIONS

11-1. Control, Parameters and Justification of AECD descriptions

Please refer to section 16 of this application document.

11-2. Parameters and Devices of AECD descriptions

Please refer to section 16 of this application document.

12. DESCRIPTION OF VEHICLES COVERED BY CERTIFICATE AND TEST PARAMETERS

12-1. Vehicle Parameters

Carline	Mazda RX-8						
Model Name	Mazda RX-8						
Vehicle Classification	LDV						
Emission Control System	TWC/AIR/HO2S/HAFS/SFI						
Engine Code	913BSAAM	913B3AAM	913BSAAM	913B3AA1	913BSAA1		
Number of Valves per Cylinder	None						
Engine Displacement (cc)	1309.4						
Sales Area	Canada	Federal/Canada	Federal	California			
Transmission and Overdrive	S6	M6	S6	M6	S6		
SIL	Not Applicable						
Tire Size	225/45R18 91W	225/45R18 91W	225/40R19 89W	225/45R18 91W	225/45R18 91W	225/40R19 89W	225/45R18 91W
N/V Ratio	33.5	50.3	49.7	33.5	50.3	49.7	33.5
ETW (lbs)	3500	3375					
CW (lbs)	3154	3065/3109	3111	3065	3111		
GVW (lbs)	3862	3818	3862	3818	3862		
Fuel Tank Volume (liter)	64						
Canister Working Capacity (g)	135 ± 10						
Canister Bed Volume	883g (2450cc)						
Power (hp) / rpm	212/7500	232/8500	212/7500	232/8500	212/7500		
Torque (lb-ft) / rpm	159/5500						

Initial Submission on 2/8/08
Update Submission on 12/5/08

14. **REQUEST FOR CERTIFICATION**

Request for Certificate


Test Group: 9TKXV01.35AA
Evaporative/Refueling Family: 9TKXR0115GBK

Mazda Motor Corporation requests that EPA issue a **2009** model year certificate of conformity for the above specified test group and evaporative/refueling family combination more fully described in this application. This is a 50 states test group request. This combination complies with the following application emission standards:

Federal: low altitude X high altitude X

California: X

This combination meets all certification requirements, and the application is current as of this date.



Naoyuki Osaki
General Manager
Environmental & Safety Engineering Department
Mazda Motor Corporation

16-3. OBD System Description

**Due to business confidentiality, this section is deleted in FOI Copy.
For Confidential Copy, please refer to the following pages.**

17. CALIFORNIA ARB INFORMATION

17-1. California Fill Pipe Specifications

**AIR RESOURCES BOARD APPLICATION FORMAT
FOR COMPLIANCE WITH THE FILL PIPE REQUIREMENTS**

Manufacture	<u>Mazda Motor Corporation</u>
Test Group	<u>9TKXV01.35AA</u>
Vehicle Model(s)	<u>Mazda RX-8 1.3L</u>

(use extra sheets if required)

The nomenclature and symbols used below are the same as those defined in "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks", amended December 7, 1982.

	<u>ARB Specification</u>	<u>Manufacturer Specification*</u>
<u>General Specification</u>		
(1) Angle α in degrees	$-10^{\circ} \leq \alpha \leq 20^{\circ}$	<u>-1.6°</u>
(2) Spill Prevention in degrees (angle between centerline of test spot in its resting position and the horizontal plane).	30° (MIN)	<u>42.1°</u>
(3) Test nozzle penetration of restrictor	2.25 CM (MIN)	<u>4.84 CM</u>
(4) Angle β in degrees	none	<u>-2.9°</u>
<u>Fill Pipe Specification</u>		
(1) Fill pipe face surface in TIR.	0.025 CM (MAX)	<u>0.02 CM</u>
(2) Fill pipe face outside diameter.	5.75 CM (MAX)	<u>4.89 CM</u>
(3) Internal locking lip in degrees of the inside circumference	100° (MIN)	<u>110.7°</u>
(a) degrees extending each side of reference plane.	35° (MIN) LS** each side RS**	<u>55.35°</u> <u>55.35°</u>
(4) Height of lip measured from fill pipe inside wall; or height of lip measured from fill pipe outside wall for outside wall for outside diameters between 5.20 and 5.75 CM.	0.25 CM (MIN) 0.85 CM (MIN)	<u>0.28 CM</u>
(5) Depth of lip (D) in centimeters	$0.4 \leq D \leq 1.3$	<u>1.018 CM</u>
<u>Offset</u>		
Offset A	none	<u>0.35 CM</u>
Offset B	none	<u>0</u>

* dimension should include adverse tolerance condition

**LS = Left side of reference plane

**RS = Right side of reference plane

Initial Submission on 2/8/08

Update Submission on 12/5/08

17-2. NMOG/NMHC & HCHO/NMHC Ratio

NMOG / NMHC = 1.04

17.4 CARB Certification Summary Sheet

E.O. # _____

2009 MODEL YEAR AIR RESOURCES BOARD CERTIFICATION SUMMARY SHEET

PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: Mazda Motor Corporation Test Group: 9TKXV01.35AA Evap. Family: 9TKXR0115GBK
 Engine Code Types: CA xxx 49S xxx 50S _____ ORVR: Yes xxx No _____
 Exhaust Std: LEV _____ LEV2 xxx ULEV _____ ULEV2 _____ SULEV _____ SULEV2 _____
 U.S. EPA: Tier2 Bin5 _____
 Vehicle Class(es): PC xxx LDT1 _____ LDT2 _____ MDV1 _____ MDV2 _____ MDV3 _____
 MDV4 _____ MDV5 _____
 Exhaust Useful Life: 100K _____ 120K xxx 150K _____
 Evap Useful Life: 100K _____ 120K _____ 150K xxx _____
 Single Cert Std for Multi-Class Eng Fam: N/A (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4)
 Fuel Type(s): Dedicated xxx Flex-Fuel _____ Dual-Fuel _____ Bi-Fuel _____
 Gasoline xxx Diesel _____ CNG _____ LNG _____ LPG _____
 M85 _____ E85 _____ Other(specify) _____
 Exh Emission Test Fuel(s): Tier2 Unleaded _____ Ph2 xxx CNG _____ LPG _____ M85 _____
 E85 _____ Other (Specify) _____
 Diesel: 13 CCR 2282 _____ 40 CFR 86. 113-90 _____ 40 CFR 86. 113-94 _____
 Evaporative Emission Test Procedure: California xxx Federal _____
 Evaporative Emission Std: LEV _____ LEV2 xxx Federal _____
 Service Accumulation: Whole Veh Full Mi _____ Whole Veh Accel Mi _____ Mfr Bench _____ Other xxx
 NMOG Test Procedure: N/A _____ Std _____ Equiv xxx _____
 R/L Test Procedure: SHED _____ Pt. Source xxx _____
 Engine Configuration: Rotary Displacement: 1.3 Liters _____
 Valves/Cyl: 0 Rated HP: 232@8500 (M6) RPM _____ 212@7500 (S6) RPM _____
 Engine: Front xxx Mid _____ Rear _____
 Drive: FWD _____ RWD xxx 4WD-FT _____ 4WD-PT _____
 Exhaust Control System and Features: TWC/AIR/HO2S/HAFS/SFI
 (use abbreviations per SAE J1930 SEP91)

	Sect/Page #		Sect/Page #
1 Authorized Representative	<u>1-1</u>	22 Gen Std, Increase in Emiss, Safety	
2 Fuel Specification	<u>-</u>	Meets all Reqmts	<u>8</u>
3 Test Equipment	<u>-</u>	23 Driveability Statements	<u>8</u>
4 Test procedure	<u>12-2-1</u>	24 Adjustable Parameters	<u>12</u>
5 Mileage Accumulation Route	<u>16-2</u>	25 Tamper Resistance Method(s)	<u>-</u>
6 Emission Warranty Statement	<u>17-3</u>	26 Fill Pipe Specifications	<u>17-1</u>
7 Maint : Cert/Req'd/Recm'	<u>-</u>	27 High Altitude Compliance	<u>8</u>
8 Emiss Label/Vac Hose Dia	<u>17-6</u>	28 OBD Sys Incl Marked Revisions	<u>16-3</u>
9 Evap Control System	<u>6, 12-1</u>	29 I & M Test Procedure & Data	<u>8</u>
10 Engine Parameters	<u>6, 12-1</u>	30 50 Degree F Compliance	<u>-</u>
11 Fuel System	<u>6</u>	31 Manufacturer's RAF	<u>-</u>
12 Ignition System	<u>6, Part</u>	32 Phase-In Schedule	<u>16-5</u>
13 Exhaust Control System	<u>6, 12-1</u>	33 NMOG Fleet Average Calculation	<u>16-5</u>
14 Proj Sales (LDV/MDV Split)	<u>13-1</u>	34 AB965 Credits/Withdrawals	<u>-</u>
15 Vehicle Description	<u>12-1</u>	35 EPA certificate	<u>-</u>
16 Evap Bench Test Procedure	<u>16-2</u>	36 Equiv NMOG Proc--ARB Approval	<u>NMOG/NMHC=1.04</u>
17 R/L Temp & Press Profiles	<u>12-2-4</u>		
18 EDV Selection	<u>-</u>		
19 Prod Veh same as Test Veh	<u>8</u>		
20 Emission Label Durability	<u>8</u>		
21 Test Vehicle Information	Durability Data Vehicle	Emission Data Vehicle	Evap. Data Vehicle
C/O or C/A MY & ID	<u>2009 9DC13BS1</u>	<u>2009 9EC13BS1</u>	<u>2004 4ECL3VS2</u>
Vehicle Log Page (s)	<u>-</u>	<u>-</u>	<u>-</u>
Zero Mile Book Page (s)	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Maint Logs & Engr Eval	<u>-</u>	<u>-</u>	<u>-</u>

Initial Submission on 2/8/08
 Update Submission on 12/5/08

17.4 CARB Certification Summary Sheet

California Review sheet

2009 Model-YEAR AIR RESOURCES BOARD CERTIFICATINO REVIEW SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

E.O.# _____
page 2/3

Manufacture : MAZDA Test Group : 9TKXV01.35AA Evaporative Family : 9TKXR0115GBK

PROJECTED EMISSIONS (grams/mile, except, grams/test for D+HS and grams/gallon for ORVR)^{(1),(2)}

Vehicle ID	Engine Code	Test		ETW	DPA	MPG	FTP							20° F HWY				Evaporative		
		Loc.	Trans				Mile	NMOG	CO	Nox	HCHO *2	CO ₂ *1	CO	Nox	CO ₂ *1	D+HS	R/L	D+HS	ORVR	
9EC13BS1	913BSAA1	MAZDA	S6	3500	n/a	20.1	50K	0.042	1.1	0.02	---	432	4.3	0.01	276	---	---	---	---	
						31.6	120K	0.048	1.3	0.03	---	---	---	0.02	---	---	---	---		
						150K	---	---	---	---	---	---	---	---	---	---	---			
4ECL3VS2	BL3VSAA4	MAZDA	S5	3375	n/a	120K	---	---	---	---	---	---	---	---	---	---	---	---	0.03	
						150K	---	---	---	---	---	---	---	---	---	0.41	0.00	0.48	---	
						---	---	---	---	---	---	---	---	---	---	---	---	---		

*1 CO2 is value at 4K mile.

*2 Complying with HCHO standard based on the good engineering evaluation.

(1) The Emission Data Vehicle(s) above comply with standards of:

50K	0.075	3.4	0.05	---	---	10.0	0.07	---	---	---	---	---
120K	0.090	4.2	0.07	---	---	---	0.09	---	---	---	---	0.20
150K	---	---	---	---	---	---	---	---	0.50	0.05	0.65	---

The NMOG values include Reactivity Adjustment Factor(s) (RAF) of : Not Applicable X NMOG _____ Methane (CNG or LNG only) _____

Emission values include DFs (with RAF deterioration, if applicable) of:

50K	0.0041	0.14	0.005	---	---	0.14	0.005	---	---	---	---	---
120K	0.0104	0.35	0.012	---	---	---	0.012	---	---	---	---	0.011
150K	---	---	---	---	---	---	---	---	---	---	---	---

(2) Evaporative DFs are the average of : 150K --- --- --- --- --- --- --- --- 0.083 0.000 0.083 ---

SFTP

	Mile	US06			SC03		
		NH-NM+Nox	CO	CO2	NH-NM+Nox	CO	CO2
Certification Level :	4K	0.03	1.3	397	0.02	1.0	494
Standards :	4K	0.14	8.0	---	0.20	2.7	---

	FTP	HWY	US06	SC03
Test Number :	1083086	1083087	1083088	1083089
Test Date :	11/28/07	11/28/07	12/1/07	11/28/07

Remarks _____

Application
Processed by _____ Date _____ Reviewd by _____ Date _____

Initial Submission on 2/8/08
Update Submission on 12/5/08

17.4 CARB Certification Summary Sheet

E.O. # _____

2009 MODEL YEAR AIR RESOURCES BOARD CERTIFICATION SUMMARY SHEET

PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: Mazda Motor Corporation Test Group: 9TKXV01.35AA Evap. Family: 9TKXR0115GBK
 Engine Code Types: CA xxx 49S xxx 50S _____ ORVR: Yes xxx No _____
 Exhaust Std: LEV _____ LEV2 xxx ULEV _____ ULEV2 _____ SULEV _____ SULEV2 _____
 U.S. EPA: Tier2 Bin5
 Vehicle Class(es): PC xxx LDT1 _____ LDT2 _____ MDV1 _____ MDV2 _____ MDV3 _____
 MDV4 _____ MDV5 _____
 Exhaust Useful Life: 100K _____ 120K xxx 150K _____
 Evap Useful Life: 100K _____ 120K _____ 150K xxx
 Single Cert Std for Multi-Class Eng Fam: N/A (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4)
 Fuel Type(s): Dedicated xxx Flex-Fuel _____ Dual-Fuel _____ Bi-Fuel _____
 Gasoline xxx Diesel _____ CNG _____ LNG _____ LPG _____
 M85 _____ E85 _____ Other(specify) _____
 Exh Emission Test Fuel(s): Tier2 Unleaded _____ Ph2 xxx CNG _____ LPG _____ M85 _____
 E85 _____ Other (Specify) _____
 Diesel: 13 CCR 2282 _____ 40 CFR 86. 113-90 _____ 40 CFR 86. 113-94 _____
 Evaporative Emission Test Procedure: California xxx Federal _____
 Evaporative Emission Std: LEV _____ LEV2 xxx Federal _____
 Service Accumulation: Whole Veh Full Mi _____ Whole Veh Accel Mi _____ Mfr Bench _____ Other xxx
 NMOG Test Procedure: N/A _____ Std _____ Equip xxx
 R/L Test Procedure: SHED _____ Pt. Source xxx
 Engine Configuration: Rotary Displacement: 1.3 Liters _____
 Valves/Cyl: 0 Rated HP: 232@8500 (M6) RPM _____ 212@7500 (S6) RPM _____
 Engine: Front xxx Mid _____ Rear _____
 Drive: FWD _____ RWD xxx 4WD-FT _____ 4WD-PT _____
 Exhaust Control System and Features: TWC/AIR/HO2S/HAFS/SFI
 (use abbreviations per SAE J1930 SEP91)

Engine Code (also list CA/49ST/50ST)	Vehicle Models (if coded see attachment)	Trans. (M5, A4 etc.)	ETW or Test Wt.	DPA or RLHP	Ignition *1 (ECM/PCM) Part NO.	EGR system *1 Part. NO	Catalytic Converter *1 Part .NO
913B3AAM(49ST)	RX-8	M6	3375	n/a	N3R7 18881 C	n/a	N3R1 20600
913B3AA1(CA)	RX-8	M6	3375	n/a	N3R5 18881 C	n/a	N3R1 20600
913BSAAM(49ST)	RX-8	S6	3375/3500*2	n/a	N3R6 18881 C	n/a	N3R1 20600
913BSAA1(CA)	RX-8	S6	3375	n/a	N3R4 18881 C	n/a	N3R1 20600

*1 Initial parts number only, for update refer to Individual application Part 2.

*2: for Canada

Initial Submission on 2/8/08
 Update Submission on 12/5/08

18. REVISIONS

No.	Date	Pages Affected	Description
-	2/8/2008	-	Issued.
Update	12/5/08	-	Update Submission

Initial Submission on 2/8/08
Update Submission on 12/5/08

Mazda Motor Corporation

Application for Certification

2009 Model Year

Durability Group:
9TKXGRGNAA3

Evap. Family:
9TKXR0115GBK

Test Group:
9TKXV01.35AA

PART 2

Mazda Motor Corporation
2009 Model Year Application for Certification
INDEX

	PART II	<u>Common Section</u>	<u>Individual test group's application</u>
<u>1</u>	<u>Part Numbers</u>	<u></u>	<u>x</u>
<u>2</u>	<u>Calibration Information</u>	<u></u>	<u>x</u>
<u>3</u>	<u>Description of Vehicles Covered by Certificate and Test Parameters</u>	<u></u>	<u>x</u>
<u>4</u>	<u>Final Sales (Final)</u>	<u></u>	<u>x</u>
<u>5</u>	<u>Service Manual and Service Bulletins</u>	<u></u>	<u>x</u>

1. PART NUMBERS

Device	Part No.	Note
Accelerator Pedal Position (APP) Sensor (Built in Pedal Assy-Accel)	F151 41 600 D	*1
	F157 41 600 D	*2
Air Control Valve(ACV)	N3H1 13 990 D	*7
	N3H1 13990 T30	
Air Fuel Ratio (A/F) Sensor (Heated)	N3R1 188G1	*7
	N3R1 188G1 T01	
Air Pump	N3H1 13810	*7
	3A6F 13810 T01	
Auxiliary Port Valve (APV) Motor	N3R4 13B70 A	*7
	N3R4 13B70	
Auxiliary Port Valve (APV) Position Sensor	N3R4 18221A	*7
	N3R4 18221	
Brake Switch	L232 66490	
Catalyst	N3R1 20600	
Clutch Switch	GJ6A 6649Y A	*8
Crankshaft Position (CKP) Sensor/Engine Speed Sensor	N3A1 18221 A	
Engine Coolant Temperature (ECT) Sensor	B593 18840 A	
Evaporative Emission (EVAP) Canister	N3R4 13970	
Evaporative Emission System Leak Detection Pump/ Change Over Valve	AJ51 18581 A	
Filler Cap	FE02 42250 B	
Fuel Injector	N3R1 13250	*7
	N3R1 13250 T01	
	N3R2 13250	*7
	N3R2 13250 T01	
Fuel Pump/Fuel Pressure Regulator	N3R1 1335Z	
Fuel Tank Level (FTL) Sensor	F190 60960	*5
	F190 60970	*6
Ignition Coil	N3H1 18100 B	*7
	N3H1 18100 A	
Ignition Switch	GP7A 66151	
Heater Control/ Air Conditioning (A/C) Switch	F189 61190	*3
	FF14 61190	*4

*1: without Aluminum Pad, *2: with Aluminum Pad, *3: auto A/C, *4: manual A/C,
 *5: main gage, *6: sub gage, *7: for mass production, *8: for manual transmission vehicles

PART NUMBERS (contd.)

Device	Part No.	Note
Heated Oxygen Sensor	N3R1 18861	*1, *5
	N3R1 18861 S90	*5
	N3H2 18861 C	*1, *4
	N3R1 18861 S90	*4
Knock Sensor	N3H1 18921 A	*1
	N3H1 18921	
Mass Airflow (MAF) Sensor/ Intake Air Temperature (IAT) Sensor	ZL01 13215	*1
	ZL01 13215 T30	
Neutral Switch	P610 17640	
Positive Crankcase Ventilation (PCV) Orifice	N3R1 10D11A	*6
Purge Control Valve	N3R1 18741	
Secondary Shutter Valve (SSV) Position Switch	N3H4 189B1	
Secondary Shutter Valve (SSV) Solenoid Valve	KL01 18741	
Spark Plug	N3H1 18110 D	*2
	N3H5 18110 A	*3
Throttle Body/Throttle Position (TP) Sensor	N3H1 136B0 C	*1
	3A6F 136B0 T01	
Thermostat	N3H1 15171	

Note:

*1: for mass production, *2: Trailing side, *3: Leading side, *4: for semi-automatic transmission vehicles,

*5: for manual transmission vehicles

*6: Update Application 12/05/2008

Initial Submission on 2/8/08

Update Submission on 12/5/2008

1. PART NUMBERS (contd.)

Device	Part No.	Note
Engine Control Unit/ Boost Sensor (for Atmospheric Pressure)	N3R5 18881 B	*1, *3
	N3R5 18881 C	*1, *3, *5
	N3R5 18881 D	*1, *3, *5, *6
	N3R5 18881 E	*1, *3, *5, *8
	N3R5 18881 F	*1, *3, *5, *9
	N3R4 18881 B	*2, *3
	N3R4 18881 C	*2, *3, *5
	N3R4 18881 D	*2, *3, *5, *6
	N3R4 18881 E	*2, *3, *5, *8
	N3R4 18881 F	*2, *3, *5, *9
	N3R7 18881 C	*1, *4, *5
	N3R7 18881 D	*1, *4, *5, *6
	N3R7 18881 E	*1, *4, *5, *8
	N3R7 18881 F	*1, *4, *5, *9
	N3R6 18881 C	*2, *4, *5
	N3R6 18881 D	*2, *4, *5, *6
	N3R6 18881 E	*2, *4, *5, *8
	N3R6 18881 F	*2, *4, *5, *9
Transmission Control Unit	N3R4 189E1 B	*2
	N3R4 189E1 C	*2, *5
	N3R4 189E1 D	*2, *5, *6
	N3R4 189E1 E	*2, *5, *10
	N3R4 189E1 F	*2, *5, *11

Note:

- *1: for manual transmission vehicles
- *2: for semi-automatic transmission vehicles
- *3: California,
- *4: Federal
- *5: for mass production
- *6: RC #09-FA-1, 4/7/2008
- *7: RC #09-FA-2 5/22/2008
- *8: RC #09-FA-3 6/23/2008
- *9: RC #09-FA-4 11/28/2008
- *10: RC #09-FA-5 11/27/2008
- *11: RC #09-FA-6 11/27/2008

1. PART NUMBERS (contd.)

Device	Part No.	Note
Linear Solenoid/ Lock-up Solenoid/ Lock-up Slip Solenoid/ PL Solenoid (Built in Valve Assy Control)	SJ01-19750	*1
Output Shaft Speed (OSS) Sensor	SJ01 215H2	*1
Shift Position Range Switch/Sensor	SJ01 19444	*1
Shift Solenoid (SS) A (Shift Control Solenoid A)	SJ01 211DX	*1
Shift Solenoid (SS) B (Shift Control Solenoid B)	SJ01 211DY	*1
Shift Solenoid (SS) C (Shift Control Solenoid C)	SJ01 211DX	*1
Shift Solenoid (SS) D (Shift Control Solenoid D)	SJ01 211DZ	*1
Shift Solenoid (SS) E (Shift Control Solenoid E)	SJ01 212D0	*1
Turbine Shaft Speed (TSS) Sensor	SJ01 215H2	*1
Transmission Fluid Temperature (TFT) Sensor	SJ01 212K1	*1

Note:

*1: for semi-automatic transmission vehicles

2. CALIBRATION INFORMATION

EM Component	Parameter	Calibration
FUEL SYSTEM		
Fuel pump	fuel flow	min. 156 L/hr @ 430 kPa
Fuel pressure regulator	fuel pressure	392 ± 5 kPa
EGR SYSTEM		
EGR valve	exhaust gas	Not Applicable
EGR vacuum regulator	vacuum to EGR valve	Not Applicable
EGR orifice	EGR gases	Not Applicable
IGNITION SYSTEM		
Tune up specifications	basic timing (Leading Side)	-5 ± 1deg BTDC
	basic timing (Trailing Side)	10 ± 1deg BTDC
	timing rpm in N	810 ± 50 rpm *1
		820 ± 50 rpm *2
	idle rpm in N	810 ± 50 rpm *1
820 ± 50 rpm *2		
Spark plugs	gap	0.0453 through 0.0492 inch
MISCELLANEOUS		
Oxygen sensor	=(engine A/F)/(stoich A/F)	=0.9 : min. 650 mV
		=1.1 : max. 250 mV
A/F ratio sensor	=(engine A/F)/(stoich A/F)	=1.22 : min. 0.40 mA
		=0.88 : max. -0.25 mA
Thermostat	coolant flow : starts to open	179.6 ± 35.6 °F
	coolant flow : fully open by	203°F

*1: for semi-automatic transmission vehicles

*2: for manual transmission vehicles

3. DESCRIPTION OF VEHICLES COVERED BY CERTIFICATE & TEST PARAMETERS

Refer to “12. DESCRIPTION OF VEHICLES COVERED BY CERTIFICATE & TEST PARAMETERS” in the Part I Application and the Common Section.

4. FINAL SALES (FINAL)

Refer to “13-2. Final Sales (Final)” in the final submission of the Common Section.

5. SERVICE MANUALS, SERVICE BULLETINS

Mazda has been submitted copies of service manuals, service bulletins and instructions under separate covers as they became available.

Initial Submission on 2/8/08

Update Submission on 12/5/2008