



15500 Erwin Street, Suite 1029
Van Nuys, CA 91411

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www.ketteng.com

2007 Dodge Caravan Fuel Doctor Test Summary

Date 21-Jul-09
 Site/Location Kett Engineering / Paramount, California
 Vehicle Year 2007
 Make Dodge
 Model Caravan
 Engine 3.3 liter V6 Automatic
 Test Purpose Fuel Consumption study
 Test Route Type Highway
 Total test miles 802 miles
 Total test trips 4
 Highest test trip MPG 28.1 MPG

Vehicle	Test #	Date	Start Odo	End Odo	Miles	AVG MPG	Gallons	Fuel Type	Old EPA mpg	New EPA mpg	Fuel Doctor Device Installed?	
											YES	NO
07 Dodge Caravan	DC-01	6/4/2009	43,790	43,940	150	23.8	13.893	Unocal 87	19/26	17/24		X
07 Dodge Caravan	DC-01	6/4/2009	43,940	44,040	150	23.8	12.619	Unocal 87	19/26	17/24	X	
07 Dodge Caravan	DC-01	6/5/2009	44,091	44,390	299	25.2	11.862	Unocal 87	19/26	17/24	X	
07 Dodge Caravan	DC-02	6/19/2009	44,449	44,651	203	28.1	7.222	Unocal 87	19/26	17/24	X	

Manager Account Services
Kett Engineering Corporation

Durability Driver Log

Driver Number & Name: 2345 [REDACTED] Test#: M B 0 1
 Date: 0 5 - 2 7 - 0 9
 Site: (1) 2 3 4 Shift: (1) 2 3
 Start Time: 1 1 : 3 0 Ending Odo: 5 3 , 2 2 6
 End Time: 0 3 : 3 0 Starting Odo: 5 3 , 0 1 3
 Route Code: NA Shift Miles: 2 1 3
 Ambient@ Start: 6 8 %RH @ Start: NA Weather Condition (choose worst one):
 Ambient@ End: 7 8 %RH @ End: NA Clear / Cloudy / Rain / Snow
 NO Cycling Performed?

1. Driver Inspections - (O=OK X=problem /=NA)

NOTE: **DO NOT** add fluids or attempt any repair without AVO. ALL "X" Items to be reported to Supervisor before driving

Underhood	Comment	Safety	Other
<input type="checkbox"/> Oil Level	_____	<input type="checkbox"/> Headlights	<input checked="" type="checkbox"/> Vehicle Book
<input type="checkbox"/> Brake Level	_____	<input type="checkbox"/> Tail&Brake lights	<input type="checkbox"/> Fuel Card
<input type="checkbox"/> Trans Level	_____	<input type="checkbox"/> Turn/Hazard	<input checked="" type="checkbox"/> Pager
<input type="checkbox"/> Pwr Steering Level	_____	<input type="checkbox"/> Wiper Cond.	<input checked="" type="checkbox"/> Cell Phone
<input type="checkbox"/> Wind Washer Level	_____	<input type="checkbox"/> Tire Cond.	<input type="checkbox"/> Body Damage
<input type="checkbox"/> Coolant Level	_____	<input checked="" type="checkbox"/> Fire Ext.	<input type="checkbox"/> Interior Damage
<input type="checkbox"/> Hoses	_____	<input checked="" type="checkbox"/> Flashlight	<input type="checkbox"/> Interior Soiled
<input type="checkbox"/> Belts	_____	<input type="checkbox"/> Spare Tire&Tools	
<input type="checkbox"/> Battery	_____	<input checked="" type="checkbox"/> Accident Forms	

Ballast Condition: Driver + 0 0 0 lbs

Inspection Comments: VEHICLE DRIVEN w/o AC, WINDOWS ROLLED UP & PASSENGER (DROVE HIGHWAY ROUTE @ 65 MPH CONSISTANTLY NEVER DRIVING OVER 70 MPH.)

	Before	After
RF	24	28
RR	24	28
LR	30	33
RR	30	33

2. Fueling Information

Instructions: 1. Record fuel level BEFORE filling tank. 2. Write your Name, Test#, and Project Number on your receipt and attach to your timecard. 3. Reset trip odometer AFTER you have recorded it.

Gauge Reading	E	1/8	1/4	3/8	(1/2)	5/8	3/4	7/8	F	E	1/8	1/4	3/8	1/2	5/8	(3/4)	7/8	F
Odometer	5	3	0	1	3					5	3	2	2	6				
Trip Odometer																		
Gallons	1	0	7							6	7							
Amount (\$)	2	9	1	5						1	8	1	9					
Brand	UNOCAL 76 (89)									UNOCAL 76 (89)								

3. Problems/Comments

NO Did you complete any Incident Reports?
 O How many?

Additional Comment: AVG MPG FOR TRIP = 31.6 MPG. Checked By: [REDACTED]

33.7 mpg 72m
 34.1 mpg 100m

KETT ENGINEERING QUALITY MANAGEMENT WORK INSTRUCTION

Instructions: Complete this form when receiving and releasing Test Vehicles owned by the customer.

KETT ENGINEERING CORPORATION

VEHICLE CHECK-IN/OUT FORM

CUSTOMER FUEL DOCTOR
 OWNER: [REDACTED]
 VEHICLE MAKE MERCEDES
 MODEL E 350
 COLOR SILVER
 VIN [REDACTED]

DATE RECEIVED 5/27/09 PWO #
 ODOMETER: 53013 VEH. # M801
 PLATE [REDACTED] Expires: Aug 2009
 DELIVERY METHOD: Truck Driven Picked Up Other:
 CARRIER/Driver: N/A
 Received By: [REDACTED] Date: 5/27/09

Condition Received:

Condition - Put an "I" for incoming condition and "O" for outgoing condition
 New V. Good Good Poor Damaged

Comments

Exterior	Paint		X			SCRATCHES LEFT REAR DOOR & LEFT CORTAL PANEL REAR BUMPER SCUFFS, RT FRONT FENDER MUD, RT BUMPER SCUFFS ON RT & LEFT BOTTOM OUT, MIDDLE TRAPPER BENT
	Windows		X			
	Trim		X			
	Lights		X			
	Tires			X		
	Wheels			X	RT FRONT RT REAR	
Mechanical						
	Engine		X			
	Transmission					
	Fluids			X		BRAKE FLUID BIT LOW BETWEEN MIN & MAX MARK.
	Steering/Susp.		X			
	Brakes			X		BRAKE LINING IS ABOUT 1/2 LIFE IN FRONTS, REAR ABOUT 70% STILL OK.
Interior - Front						
	Seats		X			
	Door Trim					
	IP		X			
	Console		X			
	Radio		X			
	Controls		X			
Rear						
	Seats		X			
	Trim		X			
	Console		X			
	Controls		X			
Cargo						
	Trim		X			



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Kett Engineering Test Summary
 Fuel Doctor Testing Projects
 As of 6/15/09

Vehicle	Test #	Date	Route	Start Odo	End Odo	Miles	Traffic condition	AVG MPG	Gallons	Fuel Type	Old EPA mpg	New EPA mpg	Fuel Doctor Device Installed?		Comments
													YES	NO	
07 MBZ E-350	MB-01	5/27/2009	HWY	53,013	53,226	213	Light-used Diamond lane at times	31.6	6,739	Unocal 89	19/26	17/24	X		Ride-a-long with Mr Soffa. 89 grade requested by customer. FD already installed