



OIL REPORT

LAB NUMBER: D97635 **UNIT ID:** 04 MSM
REPORT DATE: 12/11/2009 **CLIENT ID:** 38813
CODE: 44/284 **PAYMENT:** Verbal, Matt

UNIT	MAKE/MODEL: Mazda 1.8L 4-cyl turbo FUEL TYPE: Gasoline (Unleaded) ADDITIONAL INFO: MazdaSpeed BP-4 W/T	OIL TYPE & GRADE: Shell Rotella T Synthetic 5W/40 OIL USE INTERVAL: 3,500 Miles
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CLIENT	MATT [REDACTED] [REDACTED] [REDACTED] CHANDLER, AZ [REDACTED]	PHONE: [REDACTED] FAX: ALT PHONE: EMAIL: [REDACTED]
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COMMENTS

MATT: Thanks for the note about your engine. We haven't seen too many samples from the 1.8L turbo but yours wears just as nicely as any that have come across our desks. Universal averages for that engine type are based on an oil run of ~4,000 miles. This oil was run just shy of that mark but with wear looking as good as it does, you could have easily kept this oil in place longer. Try ~5,000 miles next time, if you're interested. The oil was in good shape physically and contained no harmful contaminants. It looks like you've been taking good care of this one.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	3,500	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit	70,000						
	Sample Date	11/10/09						
	Make Up Oil Added	0 qts						
ALUMINUM	1	1					3	
CHROMIUM	1	1					1	
IRON	5	5					12	
COPPER	1	1					4	
LEAD	2	2					2	
TIN	0	0					0	
MOLYBDENUM	60	60					71	
NICKEL	0	0					0	
MANGANESE	0	0					1	
SILVER	0	0					0	
TITANIUM	0	0					0	
POTASSIUM	1	1					1	
BORON	24	24					39	
SILICON	14	14					13	
SODIUM	7	7					8	
CALCIUM	829	829					1684	
MAGNESIUM	1222	1222					530	
PHOSPHORUS	1029	1029					846	
ZINC	1230	1230					1023	
BARIUM	0	0					0	

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	72.8	65-78				
	cSt Viscosity @ 100°C	13.70	11.6-15.3				
	Flashpoint in °F	415	>375				
	Fuel %	<0.5	<2.0				
	Antifreeze %	0.0	0				
	Water %	0.0	<0.1				
	Insolubles %	TR	<0.6				
	TBN						
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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