

OIL REPORT

LAB NUMBER: D95395 **REPORT DATE:** 11/19/2009

CODE: 20/284

CLIENT ID: 38509
PAYMENT: CC:

UNIT ID: BMW M3

MAKE/MODEL: BMW 4.0L (S65B40) V-8

FUEL TYPE: Gasoline (Unleaded)

ADDITIONAL INFO:

AMPowerJ

OIL TYPE & GRADE: Castrol 10W/60
OIL USE INTERVAL: 7,200 Miles

PHONE:

FAX:

ALT PHONE: EMAIL:

MMENTS

CLIENT

AMPowerJ: Iron and copper were mildly high in this initial sample from your M3's engine. Universal averages show typical wear levels for the S65B40 after about 4,200 miles on the oil. This oil was used much longer than that, and that could explain iron. This is because iron is the only metal to typically track directly with miles on the oil. So, your wear rate (ppm/mile) for iron is actually close to average. Copper (brass/bronze bushings, oil cooler, etc) isn't high enough to lose sleep over. The thin viscosity wasn't from fuel and isn't a concern. No contamination was noted.

	MI/HR on Oil	7,200				
	MI/HR on Unit	7,200	UNIT /			
	Sample Date	10/21/00	LOCATION			UNIVERSAL AVERAGES
		10/31/09	AVERAGES			AVENAGES
	Make Up Oil Added	0.5 qt				
_		_				-
Ó	ALUMINUM	4	4			3
LION	CHROMIUM	0	0			0
MIL	IRON	16	16			7
	COPPER	12	12			4
ER	LEAD	2	2			6
Д	TIN	3	3			1
ည	MOLYBDENUM	1	1			60
2	NICKEL	0	0			1
PA	MANGANESE	1	1			0
Z	SILVER	0	0			0
	TITANIUM	0	0			0
TS	POTASSIUM	6	6			2
ELEMENT	BORON	75	75			62
≥	SILICON	5	5			5
Ë	SODIUM	5	5			5
	CALCIUM	1490	1490			2234
	MAGNESIUM	708	708			280
	PHOSPHORUS	834	834			839
	ZINC	1022	1022			982
	BARIUM	2	2			0

Values Should Be*

	SUS Viscosity @ 210°F	82.2	86-110			
ROPERTIES	cSt Viscosity @ 100°C	16.08	17.0-22.9			
	Flashpoint in °F	400	>370			
	Fuel %	<0.5	<2.0			
	Antifreeze %	0.0	0.0			
	Water %	0.0	0.0			
	Insolubles %	0.1	<0.6			
ā	TBN					
	TAN					
	ISO Code					

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE