

OIL REPORT

LAB NUMBER: F96032 **REPORT DATE**: 2/11/2014

UNIT ID: CLIENT ID:

CODE: 20/75

PAYMENT:

INIT

MAKE/MODEL: BMW 3.2L (S-54) Inline 6 Cylinder

FUEL TYPE: Gasoline (Unleaded)

ADDITIONAL INFO:

OIL TYPE & GRADE:

Liqui Moly 10W/60

OIL USE INTERVAL: 6

6,106 Miles

LIENT

OMMENTS

ROBERT: You used LiquiMoly oil this time around, and you'll note the drop in titanium and sodium. With that drop in sodium, we don't think there's any coolant in the oil. Plus bearing wear is looking better. It's hard to say that a change in oil brand alone caused the improvement in lead, but we'll keep an eye on it to make sure it stays low. Maybe your M Coupe saw some lighter use over the last 6,106 miles. Either way, we like the lower lead reading. Some fuel is still present, but it's not hurting anything. The low viscosity isn't a problem. Looking good at 74,866 total miles.

	MI/HR on Oil	6,106		6,224	5,700			
	MI/HR on Unit	74,866	UNIT / LOCATION AVERAGES	68,760	62,536			UNIVERSAL
	Sample Date	02/03/14		06/11/13	11/11/12			AVERAGES
	Make Up Oil Added	0 qts		0 qts	0 qts			
A								
N	ALUMINUM	3	3	4	3	- 7	1	4
MILLION	CHROMIUM	0	0	0	0			0
	IRON	8	7	6	7			10
	COPPER	3	3	3	3			8
E	LEAD	4	8	10	10			5
4	TIN	1	0	0	0			1
2	MOLYBDENUM	33	51	118	1			33
R	NICKEL	0	0	1	0			1
PA	MANGANESE	1	1	1	1			2
Z	SILVER	0	0	0	0			0
77 6	TITANIUM	7	11	25	0			3
ITS	POTASSIUM	2	3	4	4			2
EN	BORON	45	68	51	108			86
ELEM	SILICON	4	4	5	4			5
	SODIUM	38	95	124	122			7
	CALCIUM	2296	2089	2338	1633			1777
	MAGNESIUM	73	301	244	587			489
	PHOSPHORUS	778	777	764	790			846
	ZINC	915	979	966	1057			1008
	BARIUM	0	0	0	0			0

Values

Should Be*

SUS Viscosity @ 210°F	74.4	80-95	87.0	86.5			
cSt Viscosity @ 100°C	14.11	15.5-19.4	17.26	17.12			
Flashpoint in °F	390	>395	385	375			
Flashpoint in °F Fuel %	TR	<2.0	0.5	TR			
Antifreeze %	0.0	0.0	?	?		-	
Water %	0.0	<0.1	0.0	0.0			
Insolubles %	TR	<0.6	0.0	0.0			
TBN			5	4.7			
TAN							
ISO Code				<u> </u>	- <u>_</u> -= 2		

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE