



# OIL REPORT

LAB NUMBER: E92708  
 REPORT DATE: 3/5/2012  
 CODE: 20/75

UNIT ID: 08 M3-T  
 CLIENT ID: 53829  
 PAYMENT: Prepaid

<b>UNIT</b>	MAKE/MODEL: Transmission BMW MDCT Dual Clutch	OIL TYPE & GRADE: Pentosin BMW-DCTF-1
	FUEL TYPE:	OIL USE INTERVAL: 30,000 Miles
	ADDITIONAL INFO:	

<b>CLIENT</b>	
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**COMMENTS** RICHARD: You have the distinction of being the first person to send us a sample from a BMW MDCT transmission. The bad news about that is we don't have any universal averages to compare with your sample, so we're not sure what one of these dual clutch transmissions should look like yet. **The good news is your wear is so low that we doubt any mechanical problems.** Silicon is probably leftover sealers (assuming this is the first fluid change for this M3), but moisture is a problem. Hopefully that was just a one-time thing. Check back in another 30K miles to monitor.

	MI/HR on Oil	30,000	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit							
	Sample Date	02/29/12						
	Make Up Oil Added							
<b>ELEMENTS IN PARTS PER MILLION</b>	ALUMINUM	10	10					10
	CHROMIUM	0	0					0
	IRON	46	46					46
	COPPER	7	7					7
	LEAD	0	0					0
	TIN	0	0					0
	MOLYBDENUM	0	0					0
	NICKEL	0	0					0
	MANGANESE	6	6					6
	SILVER	0	0					0
	TITANIUM	0	0					0
	POTASSIUM	1	1					1
	BORON	65	65					65
	SILICON	29	29					29
	SODIUM	6	6					6
	CALCIUM	47	47					47
	MAGNESIUM	0	0					0
PHOSPHORUS	260	260					260	
ZINC	20	20					20	
BARIUM	3	3					3	

Values Should Be\*

<b>PROPERTIES</b>						
	Value	Range				
SUS Viscosity @ 210°F	48.2	43-51				
cSt Viscosity @ 100°C	6.73	5.1-7.9				
Flashpoint in °F	430	>335				
Fuel %	-					
Antifreeze %	-					
Water %	0.1	<0.1				
Insolubles %	TR	<0.1				
TBN						
TAN						
ISO Code						

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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