



OIL REPORT

LAB NUMBER: [REDACTED]
 REPORT DATE: 8/21/2015
 CODE: 20/501

UNIT ID: MERCEDES
 CLIENT ID: [REDACTED]
 PAYMENT: [REDACTED]

UNIT	MAKE/MODEL: Mercedes Benz 3.0L V6 DI Twin Turbo	OIL TYPE & GRADE: Mobil 1 0W/40
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 9,000 Miles
	ADDITIONAL INFO: 2015 C400	

CLIENT	JON OLDER	PHONE: (607) 599-1767
	[REDACTED]	FAX:
	[REDACTED]	ALT PHONE:
	[REDACTED]	EMAIL: [REDACTED]
	[REDACTED]	

COMMENTS
 JON: The sample from your new C400 looks pretty good. This is a very new engine type, so our universal average file is still building, but it can still give us a general idea of what wear typically looks like after ~4,500 miles on the oil. The metals in your sample seem fine for a 9,000-mile run. We highlighted iron to keep it on our radar, but residual wear-in and the long run probably contributed to this level, so we'll expect to see some improvements next time. The TBN is fine at 3.1, but you might want to change out this fill to prevent metals from making the oil abrasive.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	9,000	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit	18,439						
	Sample Date	8/9/2015						
	Make Up Oil Added	0 qts						
	ALUMINUM	4	4					3
	CHROMIUM	1	1					1
	IRON	62	62					35
	COPPER	18	18					15
	LEAD	1	1					1
	TIN	0	0					1
	MOLYBDENUM	67	67					34
	NICKEL	0	0					0
	MANGANESE	8	8					9
	SILVER	0	0					0
	TITANIUM	0	0					0
	POTASSIUM	4	4					5
	BORON	110	110					95
	SILICON	5	5					9
	SODIUM	9	9					7
	CALCIUM	1872	1872					2213
	MAGNESIUM	15	15					14
	PHOSPHORUS	881	881					926
	ZINC	1079	1079					1088
	BARIUM	1	1					1

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	65.0	63-76				
	cSt Viscosity @ 100°C	11.62	11.1-14.8				
	Flashpoint in °F	410	>375				
	Fuel %	<0.5	<2.0				
	Antifreeze %	0.0	0.0				
	Water %	0.0	0.0				
	Insolubles %	TR	<0.6				
	TBN	3.1	>1.0				
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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