



OIL REPORT

LAB NUMBER: [REDACTED]
 REPORT DATE: 6/9/2017
 CODE: 63/32

UNIT ID: 07 GRAND CHEROKEE
 CLIENT ID: [REDACTED]
 PAYMENT: [REDACTED]

UNIT	MAKE/MODEL: Mercedes Benz 3.0L V-6 OM642	OIL TYPE & GRADE: 5W/40
	FUEL TYPE: Diesel	OIL USE INTERVAL: 10,000 KM
	ADDITIONAL INFO:	

CLIENT	[REDACTED]
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COMMENTS [REDACTED] Our universal averages for the Mercedes OM642 engine are based on ~16,700 km of oil use. We expect metals to be a bit lower than average on a shorter oil run, but the readings from the engine in this Grand Cherokee are below the universal average levels, even on a per-km basis, which means that this engine is wearing better than most other comparable engines we've seen. We didn't find any harmful contaminants (dirt, fuel, moisture, etc.), and the physical properties are correct, so we don't see any problems here! Add another 3,000-5,000 km on this oil.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	10,000	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit	140,000						
	Sample Date	5/27/2017						
	Make Up Oil Added	0 qts						
ALUMINUM	3	3					7	
CHROMIUM	1	1					1	
IRON	18	18					46	
COPPER	4	4					4	
LEAD	1	1					1	
TIN	0	0					1	
MOLYBDENUM	1	1					47	
NICKEL	0	0					1	
MANGANESE	0	0					1	
SILVER	0	0					0	
TITANIUM	0	0					1	
POTASSIUM	2	2					4	
BORON	58	58					66	
SILICON	9	9					6	
SODIUM	3	3					5	
CALCIUM	2588	2588					1593	
MAGNESIUM	15	15					250	
PHOSPHORUS	880	880					833	
ZINC	1058	1058					981	
BARIUM	0	0					0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	68.9	66-78				
	cSt Viscosity @ 100°C	12.66	11.9-15.3				
	Flashpoint in °F	435	>410				
	Fuel %	<0.5	<2.0				
	Antifreeze %	0.0	0.0				
	Water %	0.0	0.0				
	Insolubles %	0.2	<0.6				
	TBN						
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

416 E. PETTIT AVE. FORT WAYNE, IN 46806 (260) 744-2380 www.blackstone-labs.com