



OIL REPORT

LAB NUMBER:
 REPORT DATE: 6/29/2016
 CODE: 20/32

UNIT ID:
 CLIENT ID:
 PAYMENT:

UNIT	EQUIP. MAKE/MODEL: Mercedes Benz 3.0L V-6	OIL TYPE & GRADE: Mobil 1 ESP 5W/30
	FUEL TYPE: Diesel	OIL USE INTERVAL: 3,000 Miles
	ADDITIONAL INFO: E320	

CLIENT	PHONE:
	FAX:
	ALT PHONE:
	EMAIL:

COMMENTS Universal averages show typical wear levels for this type of engine after about 10,700 miles on the oil. Iron is the metal that tracks most directly with miles on the oil, so it's on the high end for just 3,000 miles. That shows wear at steel parts and since the other metals are in good shape, this is probably steel on steel wear. Something in the valve train could be to blame. Around 13 ppm would have been more acceptable for this engine. Fuel at 1.0% is not harmful, nor is it enough to show a fuel system problem. Run another 3,000 miles and check back on iron.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	3,000	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit	168,200						
	Sample Date	6/15/2016						
	Make Up Oil Added	0 qts						
ALUMINUM	3	3					7	
CHROMIUM	2	2					1	
IRON	55	55					46	
COPPER	1	1					4	
LEAD	0	0					1	
TIN	0	0					1	
MOLYBDENUM	25	25					48	
NICKEL	0	0					1	
MANGANESE	0	0					1	
SILVER	0	0					0	
TITANIUM	0	0					1	
POTASSIUM	2	2					7	
BORON	33	33					68	
SILICON	6	6					6	
SODIUM	4	4					5	
CALCIUM	1833	1833					1577	
MAGNESIUM	11	11					256	
PHOSPHORUS	773	773					838	
ZINC	935	935					987	
BARIUM	0	0					0	

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	61.8	58-69				
	cSt Viscosity @ 100°C	10.72	9.7-13.0				
	Flashpoint in °F	400	>410				
	Fuel %	1.0	<2.0				
	Antifreeze %	0.0	0.0				
	Water %	0.0	<0.1				
	Insolubles %	0.3	<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