



OIL REPORT

LAB NUMBER: H50020
 REPORT DATE: 5/11/2016
 CODE: 20/685

UNIT ID: 08 R320
 CLIENT ID: 87445
 PAYMENT: CC: MC

UNIT	MAKE/MODEL: Mercedes Benz 3.0L V-6 OM642	OIL TYPE & GRADE: Mobil 1 ESP 5W/30
	FUEL TYPE: Diesel	OIL USE INTERVAL: 4,200 KM
	ADDITIONAL INFO: EGR disabled	

CLIENT	MARC HANNA	PHONE: (226) 240-0774
	703 ROBERT FERRIE DR	FAX:
	KITCHENER, ON N2R 0B2	ALT PHONE:
	CANADA	EMAIL: marc@hagios.ca

COMMENTS
 MARC: This sample has seen about as much use as your first, so that will provide a good comparison for metals. Everything matches up well to that report, so your Mercedes is still putting up steady wear trends. The fuel we found last time cleared up nicely, and the viscosity read within spec for the grade. The TBN means this fill has additive left for a longer run as well. Grab a sample at close to 18,000 km without doing an oil change. We'll expect similar results to your last report, and will let you know if you can safely run longer on the oil then. What a good report!

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	4,200	UNIT / LOCATION AVERAGES	18,000	10,000	4,500	UNIVERSAL AVERAGES
	MI/HR on Unit	103,873		99,627	90,680	84,000	
	Sample Date	4/15/2016		2/19/2016	10/14/2015	9/12/2015	
	Make Up Oil Added	0 qts		0 qts	0 qts	0 qts	
ALUMINUM	2	3	5	3	2	7	
CHROMIUM	0	1	1	1	1	1	
IRON	17	22	38	20	14	46	
COPPER	1	2	3	2	1	4	
LEAD	0	0	1	0	0	1	
TIN	1	1	3	0	0	1	
MOLYBDENUM	63	19	5	3	3	48	
NICKEL	0	1	2	0	0	1	
MANGANESE	0	0	0	0	0	1	
SILVER	0	0	0	0	0	0	
TITANIUM	0	0	0	0	0	0	
POTASSIUM	2	3	6	1	3	7	
BORON	222	309	296	364	354	68	
SILICON	6	6	7	4	5	6	
SODIUM	2	2	2	3	2	5	
CALCIUM	1737	2065	1987	2378	2156	1577	
MAGNESIUM	16	42	49	54	50	258	
PHOSPHORUS	752	843	785	922	911	839	
ZINC	848	1034	1039	1190	1060	988	
BARIUM	0	0	0	0	0	0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	64.3	57-65	67.1	65.9	66.5
	cSt Viscosity @ 100°C	11.42	9.4-11.9	12.17	11.86	12.01
	Flashpoint in °F	435	>410	400	425	445
	Fuel %	<0.5	<2.0	1.0	<0.5	<0.5
	Antifreeze %	0.0	0.0	0.0	0.0	0.0
	Water %	0.0	<0.1	0.0	0.0	0.0
	Insolubles %	0.1	<0.6	0.3	0.2	0.2
	TBN	5.4	>1.0	4.6	6.4	
	TAN					
	ISO Code					

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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