



OIL REPORT

LAB NUMBER: H65013
 REPORT DATE: 7/20/2016
 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 0W/30
	FUEL TYPE: Diesel	OIL USE INTERVAL: 10,110 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 oil is still in use and we see no reason to change it out. Wear metals are in exceptional shape compared to universal averages and there's nothing unexpected after an additional 5,910 km on the oil. Iron saw the biggest increase, but it's the metal that tracks most directly with kilometers on the oil, so you'd expect that. The TBN is strong at 4.2, showing active additive remaining for a longer run. Low insolubles and silicon show excellent oil and air filtration. Check back after another 3,000-5,000 kilometers on this oil and we'll see how things look.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	10,110	UNIT / LOCATION AVERAGES	4,200	18,000	10,000	4,500	UNIVERSAL AVERAGES
	MI/HR on Unit	109,737		103,873	99,627	90,680	84,000	
	Sample Date	6/20/2016		4/15/2016	2/19/2016	10/14/2015	9/12/2015	
	Make Up Oil Added	0 qts		0 qts	0 qts	0 qts	0 qts	
ALUMINUM	3	3	2	5	3	2	7	
CHROMIUM	1	1	0	1	1	1	1	
IRON	26	23	17	38	20	14	46	
COPPER	2	2	1	3	2	1	4	
LEAD	0	0	0	1	0	0	1	
TIN	1	1	1	3	0	0	1	
MOLYBDENUM	69	29	63	5	3	3	48	
NICKEL	0	0	0	2	0	0	1	
MANGANESE	0	0	0	0	0	0	1	
SILVER	0	0	0	0	0	0	0	
TITANIUM	0	0	0	0	0	0	1	
POTASSIUM	3	3	2	6	1	3	7	
BORON	195	286	222	296	364	354	69	
SILICON	6	6	6	7	4	5	6	
SODIUM	5	3	2	2	3	2	5	
CALCIUM	1788	2009	1737	1987	2378	2156	1581	
MAGNESIUM	18	37	16	49	54	50	255	
PHOSPHORUS	768	828	752	785	922	911	837	
ZINC	906	1009	848	1039	1190	1060	986	
BARIUM	0	0	0	0	0	0	0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	66.0	60-69	64.3	67.1	65.9	66.5
	cSt Viscosity @ 100°C	11.87	10.2-13.0	11.42	12.17	11.86	12.01
	Flashpoint in °F	410	>410	435	400	425	445
	Fuel %	TR	<2.0	<0.5	1.0	<0.5	<0.5
	Antifreeze %	0.0	0.0	0.0	0.0	0.0	0.0
	Water %	0.0	0.0	0.0	0.0	0.0	0.0
	Insolubles %	TR	<0.6	0.1	0.3	0.2	0.2
	TBN	4.2	>1.0	5.4	4.6	6.4	
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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