



OIL REPORT

LAB NUMBER: H15541

UNIT ID: 08 R320

REPORT DATE: 11/16/2015

CLIENT ID: 87445

CODE: 20/685

PAYMENT: CC: MC

UNIT	MAKE/MODEL: Mercedes Benz 3.0L V-6 OM642	OIL TYPE & GRADE: Mercedes Benz Syn (229.51) 5W/40
	FUEL TYPE: Diesel	OIL USE INTERVAL: 10,000 KM
	ADDITIONAL INFO:	

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: Thanks for the note about the EGR being disabled. That didn't really affect anything that we can see, but it's certainly good information to have. Wear metals are still in great shape. We honestly expected the engine to wear a little more at steel parts than we have here, but that's not a complaint. The low metals just show oil that can stay in use. The TBN is 6.4, showing active additive left for a longer run It's not considered low until it hits 1.0 or less. Low insolubles and silicon show fine oil and air filtration. Check back in another 3,000-5,000 kilometers on the oil.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	10,000	UNIT / LOCATION AVERAGES	4,500				UNIVERSAL AVERAGES
	MI/HR on Unit	90,680		84,000				
	Sample Date	10/14/2015		9/12/2015				
	Make Up Oil Added	0 qts		0 qts				
ALUMINUM	3	3	2				7	
CHROMIUM	1	1	1				1	
IRON	20	17	14				46	
COPPER	2	2	1				4	
LEAD	0	0	0				1	
TIN	0	0	0				1	
MOLYBDENUM	3	3	3				49	
NICKEL	0	0	0				1	
MANGANESE	0	0	0				1	
SILVER	0	0	0				0	
TITANIUM	0	0	0				0	
POTASSIUM	1	2	3				7	
BORON	364	359	354				67	
SILICON	4	5	5				6	
SODIUM	3	3	2				4	
CALCIUM	2378	2267	2156				1573	
MAGNESIUM	54	52	50				251	
PHOSPHORUS	922	917	911				839	
ZINC	1190	1125	1060				986	
BARIUM	0	0	0				0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	65.9	65-77	66.5			
	cSt Viscosity @ 100°C	11.86	11.6-15.0	12.01			
	Flashpoint in °F	425	>410	445			
	Fuel %	<0.5	<2.0	<0.5			
	Antifreeze %	0.0	0.0	0.0			
	Water %	0.0	<0.1	0.0			
	Insolubles %	0.2	<0.8	0.2			
	TBN	6.4	>1.0				
	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