



# OIL REPORT

LAB NUMBER: J17386  
 REPORT DATE: 3/16/2017  
 CODE: 20/32

UNIT ID: 05 E320 CDI  
 CLIENT ID: 16712  
 PAYMENT: CC: Visa

<b>UNIT</b>	MAKE/MODEL: Mercedes Benz 3.2L CDI	OIL TYPE & GRADE: Mobil Delvac 1 ESP 5W/40
	FUEL TYPE: Diesel	OIL USE INTERVAL: 9,020 Miles
	ADDITIONAL INFO:	

<b>CLIENT</b>	<b>NOTE: 162k and 171k oil was TOTAL QUARTZ 5W/40 Full Synth.</b>	PHONE:
		FAX:
		ALT PHONE:
		EMAIL:

**COMMENTS** OSCAR: Iron improved this time around, but we're not sure if that's due to the switch to Delvac oil. After all, iron was already trending downward in the previous two samples on Total Quartz. The Delvac certainly didn't do any worse, but overall, we'd say they both did a pretty good job. As far as additives, this Delvac has a lot more magnesium and not quite as much calcium. The viscosity was correct for a 5W/40, and no harmful contamination was found. With wear this low after 9,000 miles, we think you could easily try 11,000 miles if you want to run longer. Nice!

<b>ELEMENTS IN PARTS PER MILLION</b>	MI/HR on Oil	9,020	<b>UNIT / LOCATION AVERAGES</b>	9,170	6,000	<b>UNIVERSAL AVERAGES</b>
	MI/HR on Unit	180,120		171,170	162,000	
	Sample Date	3/4/2017		10/23/2016	4/10/2016	
	Make Up Oil Added	0 qts		0 qts.	0 qts	
ALUMINUM	2	2	2	2	4	
CHROMIUM	1	1	1	1	2	
IRON	12	23	21	36	49	
COPPER	1	1	2	1	3	
LEAD	0	0	0	0	1	
TIN	0	0	0	1	1	
MOLYBDENUM	1	1	1	1	65	
NICKEL	0	0	0	0	0	
MANGANESE	0	0	0	0	1	
SILVER	0	0	0	0	0	
TITANIUM	0	0	0	0	0	
POTASSIUM	9	5	2	4	3	
BORON	56	55	51	57	118	
SILICON	1	2	2	2	5	
SODIUM	3	4	4	4	5	
CALCIUM	1330	2216	2788	2530	1989	
MAGNESIUM	659	229	14	13	80	
PHOSPHORUS	888	897	936	867	838	
ZINC	1117	1066	1130	952	966	
BARIUM	0	0	0	0	0	

Values Should Be\*

<b>PROPERTIES</b>	SUS Viscosity @ 210°F	71.7	66-78	74.4	74.8
	cSt Viscosity @ 100°C	13.40	11.9-15.3	14.10	14.21
	Flashpoint in °F	430	>410	460	435
	Fuel %	<0.5	<2.0	<0.5	<0.5
	Antifreeze %	0.0	0.0	0.0	0.0
	Water %	0.0	<0.1	0.0	0.0
	Insolubles %	0.3	<0.6	0.3	0.2
	TBN				
	TAN				
	ISO Code				

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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