



OIL REPORT

LAB NUMBER: [REDACTED]
 REPORT DATE: 6/30/2016
 CODE: [REDACTED]

UNIT ID: 97 E300D
 CLIENT ID: [REDACTED]
 PAYMENT: Prepaid

UNIT	MAKE/MODEL: Mercedes Benz 3.0L Inline-6 OM606	OIL TYPE & GRADE: Chevron Delo 400 LE 5W/40
	FUEL TYPE: Diesel	OIL USE INTERVAL: 7,500 Miles
	ADDITIONAL INFO:	

CLIENT	[REDACTED]	PHONE: [REDACTED]
	[REDACTED]	FAX: [REDACTED]
	[REDACTED]	ALT PHONE: [REDACTED]
	[REDACTED]	EMAIL: [REDACTED]

*all oils 5W40
Synthetic*

COMMENTS NELSON: This report is a lot like the first two for your Mercedes. All wear metals except for chrome are still right where they should be, and chrome is still climbing. A trend like that is not what we want to see from an engine, and it does look like there is something wearing poorly. We've mentioned the rings as a likely source, and that is still possible. Chrome can also be an alloy metal, but it normally takes a lot more iron than this before you start seeing chrome from steel. Any rough running or other issues? Fuel won't cause problems at 1.0%. Run 5k miles to monitor.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	7,500	UNIT / LOCATION AVERAGES	7,500	7,500	UNIVERSAL AVERAGES
	MI/HR on Unit	245,008		237,500	229,909	
	Sample Date	6/20/2016		4/4/2015	12/16/2013	
	Make Up Oil Added	2 qts		2 qts	1 qt	
ALUMINUM	3	3	3	2	3	
CHROMIUM	13	10	11	7	3	
IRON	26	25	22	26	23	
COPPER	1	1	1	2	1	
LEAD	0	1	2	0	2	
TIN	0	0	0	0	1	
MOLYBDENUM	38	35	12	54	58	
NICKEL	0	0	0	0	0	
MANGANESE	0	0	0	0	0	
SILVER	0	0	0	0	0	
TITANIUM	0	0	0	0	0	
POTASSIUM	1	2	1	3	4	
BORON	36	37	48	28	91	
SILICON	3	3	3	3	3	
SODIUM	6	7	8	6	5	
CALCIUM	1013	1101	1297	994	1974	
MAGNESIUM	1195	1144	1053	1183	448	
PHOSPHORUS	1061	1119	1173	1123	1018	
ZINC	1344	1318	1361	1249	1186	
BARIUM	0	0	0	0	0	

Delo 400LE
AA / TDT
Protekt 76

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	74.1	69-81	73.7	73.9
	cSt Viscosity @ 100°C	14.02	12.7-16.0	13.93	13.97
	Flashpoint in °F	405	>415	430	440
	Fuel %	1.0	<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 %	0.5	<0.6	0.3	0.4
	TBN				
	TAN				
	ISO Code				

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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