

 LAB NUMBER:
 H45938

 REPORT DATE:
 4/21/2016

 CODE:
 20/32



2016 CLIENT ID: PAYMENT:

UNIT

MAKE/MODEL: Mercedes Benz 3.2L CDI FUEL TYPE: Diesel OIL TYPE & GRADE: OIL USE INTERVAL: Total Quartz 5W/40 6,000 Miles

ADDITIONAL INFO: PHONE: FAX: ALT PHONE: EMAIL:

COMMENTS

CLIENT

OSCAR: You've got nothing to worry about in these results. This engine put up some very solid wear numbers during this run. Iron was dominant at a low 36 ppm, with other metals reading at just trace levels. That makes this one of the better OM648's we've come across, and averages are based on oil run a similar ~6,900 miles. The lack of potassium and sodium mean coolant isn't getting into the oil, and the flashpoint was high enough for fuel to not be an issue. Even the viscosity was within spec for a 5W/40. All of this adds up to a perfect first report!

	MI/HR on Oil	6,000	UNIT / LOCATION AVERAGES			
	MI/HR on Unit	162,000				UNIVERSAL
	Sample Date	4/10/2016				AVERAGES
	Make Up Oil Added	0 qts				
N	ALUMINUM	2	2			4
	CHROMIUM	1	1			2
	IRON	36	36			50
2	COPPER	1	1			3
ЦЩ Ш	LEAD	0	0			1
٩	TIN	1	1			1
S	MOLYBDENUM	1	1			68
Ъ,	NICKEL	0	0			0
Ъ	MANGANESE	0	0			1
z	SILVER	0	0			0
	TITANIUM	0	0			0
Ĕ	POTASSIUM	4	4			3
Ш	BORON	57	57			122
N	SILICON	2	2			5
	SODIUM	4	4			5
	CALCIUM	2530	2530			1912
	MAGNESIUM	13	13			80
	PHOSPHORUS	867	867			838
	ZINC	952	952			962
	BARIUM	0	0			0

## Values

Should Be											
SUS Viscosity @ 210°F	74.8	66-78									
cSt Viscosity @ 100°C	14.21	11.9-15.3									
Flashpoint in °F	435	>410									
Fuel %	<0.5	<2.0									
Antifreeze %	0.0	0.0									
Water %	0.0	<0.1									
Insolubles %	0.2	<0.8									
TBN											
TAN											
ISO Code											

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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