

OIL REPORT

LAB NUMBER: F59160

14.2

UNIT ID: 06 CDI

REPORT DATE: 6/13/2013

CODE: 20/75

PAYMENT: Prepaid

MAKE/MODEL:

Mercedes Benz 3.2L CDI

648.961

FUEL TYPE: Diesel

ADDITIONAL INFO:

OIL TYPE & GRADE:

Mobil 1 5W/40 ESP

OIL USE INTERVAL:

10,000 Miles

ENT

FAX:

ALT PHONE: EMAIL:

MENTS

MICHAEL: We usually start highlighting metals when they go above twice the average level, and iron and copper both meet that criteria this time around. In part, your long oil run has something to do with these levels, although both metals are reading more than twice the average level even though you've gone less than twice the average miles (averages are based on ~6,500 miles of oil use). That means your engine is making more metal than normal on a per-mile basis. Copper and iron show wear at a bronze/steel interface, like bushings. For now, just check back to monitor.

	MI/HR on Oil	10,000		7,800	8,200	8,150	8,115	
	MI/HR on Unit	90,000	UNIT / LOCATION AVERAGES	80,000	72,300	64,300	56,150	UNIVERSAL
	Sample Date	06/04/13		10/12/12	03/19/12	07/30/11	10/29/10	AVERAGES
	Make Up Oil Added	0 qts		0 qts	0 qts	0 qts	0 qts	
	mane of on thousa	0 9.0		0 4.0	0 4.0	0 410	0 410	
N	ALUMINUM	5	4	5	4	4	4	4
임	CHROMIUM	4	3	3	2	3	3	2
MIL	IRON	107	79	91	75	72	49	48
2	COPPER	6	4	5	4	4	3	3
R	LEAD	0	0	1	0	0	0	1
Д	TIN	0	1	0	2	0	2	1
ည	MOLYBDENUM	93	87	88	85	94	75	72
R	NICKEL	1	1	1	1	0	1	0
ΡA	MANGANESE	1	1	1	1	1	0	0
Z	SILVER	0	0	0	0	0	0	0
S	TITANIUM	0	0	0	0	0	0	0
Ĕ	POTASSIUM	2	3	3	2	3	4	3
HΕΝ	BORON	113	116	108	122	119	118	124
EM	SILICON	4	4	4	4	4	4	4
╗	SODIUM	4	5	5	3	10	3	6
	CALCIUM	1150	1345	1268	1185	1251	1873	1724
	MAGNESIUM	13	16	13	9	11	32	78
	PHOSPHORUS	753	788	768	746	782	892	829
	ZINC	901	912	907	826	1023	902	952
	BARIUM	0	0	0	0	0	0	0

Values

Should Be*

SUS Viscosity @ 210°F	70.0	63-78	69.4	71.7	68.8	67.1	
cSt Viscosity @ 100°C	12.96	11.1-15.3	12.79	13.41	12.63	12.18	
Flashpoint in °F	450	>410	410	435	420	405	
Fuel %	<0.5	<2.0	TR	<0.5	<0.5	0.5	
Antifreeze %	0.0	0.0	0.0	0.0	0.0	0.0	
Water %	0.0	<0.1	0.0	0.0	0.0	0.0	
Insolubles %	0.3	<0.8	0.2	0.3	0.3	0.2	
TBN							
TAN							·
ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE