



# OIL REPORT

**LAB NUMBER:** [REDACTED]  
**REPORT DATE:** 4/28/09  
**CODE:** [REDACTED]  
**PAYMENT:** [REDACTED]

**UNIT**  
 MAKE/MODEL: Mercedes Benz 606.910  
 FUEL TYPE: Diesel  
 OIL TYPE & GRADE: Mobil 1 5W/40  
 OIL USE INTERVAL: 6,228 Miles  
 ADDITIONAL INFO:

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

**COMMENTS**  
 MARC: Universal averages (column on far-right) show typical wear levels for this type of engine after about 5,800 miles use on the oil. This oil was in use for a bit longer than average, and while most metals were nice and low, showing no problems at corresponding parts, lead (typically from bearings) was unusually high at 33 ppm. This probably shows some potential problem-level bearing wear having occurred during this oil change. We suggest monitoring oil pressure. The TBN was 7.8; plenty of oil additive was still active. No fuel or coolant found. Resample at 3K miles next fill.

UNIT / LOCATION	MI/HR on Unit	MI/HR on Oil	Sample Date	Make Up Oil Added
4.905	177,146	6,228	04/19/09	1 qt
UNIVERSAL AVERAGES	163,417		10/06/07	0.5 qt
ELEMENTS IN PARTS PER MILLION				
ALUMINUM	1	2		
CHROMIUM	3	3		
IRON	9	10		
COPPER	1	1		
LEAD	33	23		
TIN	0	0		
MOLYBDENUM	3	6		
NICKEL	0	0		
MANGANESE	0	0		
SILVER	0	0		
TITANIUM	0	0		
POTASSIUM	11	12		
BORON	53	50		
SILICON	3	3		
SODIUM	1	1		
CALCIUM	1398	1770		
MAGNESIUM	670	623		
PHOSPHORUS	1046	1078		
ZINC	1287	1313		
BARIUM	0	0		

Values Should Be\*

PROPERTIES	68.6	66-78	70.3
SUS Viscosity @ 210°F	68.6	66-78	70.3
cSt Viscosity @ 100°C	12.58	11.9-15.3	13.04
Flashpoint in °F	425	>410	410
Fuel %	<0.5	<2.0	TR
Antifreeze %	0.0	0.0	0.0
Water %	0.0	<0.1	0.0
Insolubles %	TR	<0.8	0.3
TBN	7.8		9.9
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