BLACKSTONE LABORATORIES

P.O. NUMBER Prepaid
CODE: 20/25522/37

UNIT NUMBER ALEX
REPORT DATE: 2/20/07
LAB NUMBER: C97711

OIL REPORT

CLIENT

CONTACT:
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UNIT

EQUIPMENT MAKE: Mercedes Benz
EQUIPMENT MODEL: 3.0L 300D 6-cyl
FUEL TYPE: Diesel
ADDITIONAL INFO: OM 617

OIL USE INTERVAL: 3,004 Miles
OIL TYPE & GRADE: Shell Rotella T 15W/40
MAKE-UP OIL ADDED: 0 qts

COMMENTS

ANTHONY: You have a very nice wearing engine at 261,725 miles. If you look at the wear metals from your 3.0L and compare them to the universal averages, you can see that your 6-cylinder is doing very well, especially at steel parts. Insolubles (oil oxidation due to heat, use and blow-by) were normal at 0.4%, showing good oil filtration and complete combustion. Silicon at 2 ppm points to good air filtration. No contaminants were found and the oil's viscosity was normal for a 15W/40 product. As nice as this engine looks, your 300-D may well outlast all of us!

ELEMENTS IN PARTS PER MILLION

		UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
MI/HR ON OIL	3,004							
MI/HR ON UNIT	261,725							
SAMPLE DATE	02/14/07							
ALUMINUM	3	3						4
CHROMIUM	1	1						2
IRON	12	12						32
COPPER	6	6						4
LEAD	5	5						4
TIN	0	0						1
MOLYBDENUM	2	2						25
NICKEL	1	1						1
MANGANESE	0	0						0
SILVER	0	0						0
TITANIUM	0	0						0
POTASSIUM	12	12						8
BORON	162	162						67
SILICON	2	2						5
SODIUM	0	0						4
CALCIUM	2217	2217						2415
MAGNESIUM	12	12						298
PHOSPHORUS	932	932						1002
ZINC	1059	1059						1165
BARIUM	0	0						1

PROPERTIES

TEST	cST VISCOSITY @ 40 °C	SUS VISCOSITY @ 100 °F	VISCOSITY INDEX	cST VISCOSITY @ 100 °C	SUS VISCOSITY @ 210 °F	FLASHPOINT IN °F	FUEL %	ANTIFREEZE %	WATER %	INSOLUBLES %
VALUES SHOULD BE					69-80	>410	<2.0	0	0.0	<0.6
TESTED VALUES WERE					76.1	415	<0.5	0.0	0.0	0.4

LIABILITY LIMITED TO COST OF SAMPLE ANALYSIS

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