



P.O. NUMBER CC: Visa  
 CODE: 1/13365/121

UNIT NUMBER VOLVO V70R  
 REPORT DATE: 4/4/05  
 LAB NUMBER: C41401

## OIL REPORT

<b>CLIENT</b>	CONTACT:	PHONE: (781) 708-4137
	NAME: LEWMAN RACING	FAX:
	ADDRESS: 122 SCOTT CIR DEDHAM, MA 02026	E-MAIL: andrew@lewmanracing.com

<b>UNIT</b>	EQUIPMENT MAKE: Volvo	OIL USE INTERVAL: 5,000 Miles
	EQUIPMENT MODEL: 2.4L 5-cyl	OIL TYPE & GRADE: 10W/30 (Gas)
	FUEL TYPE: Gasoline (Unleaded)	MAKE-UP OIL ADDED: 0 qts
	ADDITIONAL INFO: 1998 AWD	

**COMMENTS**  
 LEWMAN: We see some nice wearing Volvo engines here, but yours may be the best one we've seen in a month. Universal averages show typical wear metals for an oil from this type of engine after about 5,950 miles run on the oil. Your oil was in use fewer miles, and we found all wear from the engine at around average levels and in the correct balance to show normal mechanical parts inside. Air and oil filtration look okay. No moisture or anti-freeze found but gas contamination was present. The TBN was 3.8, still plenty high. Try 6,000 miles for the next sample.

<b>ELEMENTS IN PARTS PER MILLION</b>	MI/HR ON OIL	5,000	<b>UNIT / LOCATION AVERAGES</b>							<b>UNI VERSAL AVERAGES</b>
	MI/HR ON UNIT	77,141								
	SAMPLE DATE	02/26/05								
ALUMINUM	2	2								3
CHROMIUM	1	1								1
IRON	6	6								13
COPPER	2	2								5
LEAD	1	1								14
TIN	0	0								0
MOLYBDENUM	43	43								42
NICKEL	0	0								0
MANGANESE	0	0								0
SILVER	0	0								0
TITANIUM	0	0								0
POTASSIUM	0	0								0
BORON	70	70								49
SILICON	3	3								7
SODIUM	3	3								4
CALCIUM	1804	1804								1933
MAGNESIUM	17	17								228
PHOSPHORUS	552	552								762
ZINC	598	598								878
BARIUM	0	0								0

<b>PROPERTIES</b>	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					59-65	>360	<2.0	0	<0.1	<0.6
	TESTED VALUES WERE					54.4	325	1.8	0.0	0.0	0.4