



OIL REPORT

LAB NUMBER: D75168

UNIT ID: 00 DISCOVERY II

REPORT DATE: 5/13/2009

CLIENT ID: 35797

CODE: 20/284

PAYMENT: CC: MC

UNIT	MAKE/MODEL: Land Rover 4.0L V8	OIL TYPE & GRADE: Mobil 1 10W/30
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 1,000 Miles
	ADDITIONAL INFO:	

CLIENT	RYAN TARQUINIO	PHONE: (540) 903-7081
	78 MEADOWLAKE DRIVE	FAX:
	DOWNINGTOWN, PA 19335	ALT PHONE:
		EMAIL: crzncorrado@aol.com

COMMENTS RYAN: We're sorry to hear about the knock this engine has. You will be happy to know it doesn't appear to be from a major mechanical problem. Universal averages show typical wear levels for this type of engine after ~4,600 miles use on the oil. This oil was run only 1,000 miles, so we expected to see lower-than-average wear. The viscosity was low for a 10W/30, but this drop wasn't due any excess fuel, so it's not a major concern. It will be interesting to see if the Lucas additive helps the noise. That will thicken the viscosity quite a bit. Check back in ~5,000 miles.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	1,000	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit	89,000						
	Sample Date	05/11/09						
	Make Up Oil Added	0 qts						
ALUMINUM	2	2					4	
CHROMIUM	1	1					1	
IRON	7	7					16	
COPPER	1	1					4	
LEAD	1	1					5	
TIN	0	0					1	
MOLYBDENUM	77	77					62	
NICKEL	0	0					1	
MANGANESE	0	0					0	
SILVER	0	0					0	
TITANIUM	0	0					0	
POTASSIUM	2	2					2	
BORON	64	64					31	
SILICON	9	9					14	
SODIUM	6	6					5	
CALCIUM	2059	2059					2266	
MAGNESIUM	11	11					188	
PHOSPHORUS	631	631					792	
ZINC	685	685					957	
BARIUM	0	0					0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	57.5	59-68				
	cSt Viscosity @ 100°C	9.50	9.9-12.7				
	Flashpoint in °F	370	>365				
	Fuel %	<0.5	<2.0				
	Antifreeze %	0.0	0				
	Water %	0.0	0.0				
	Insolubles %	0.2	<0.6				
	TBN						
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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