



# Lubricant Analysis Report

North America: +1-877-808-3750

0	1	2	3	4
NORMAL		ABNORMAL		CRITICAL

Overall report severity based on comments.

Account Information		Component Information		Sample Information	
Account Number: ONLINE-2349-0000		Component ID: 2000 LAND ROVER ENGINE		Tracking Number: 13094R00556	
Company Name: <span style="border: 1px solid red; display: inline-block; width: 150px; height: 20px;"></span>		Secondary ID:		Lab Number: A-479380	
Contact: <span style="border: 1px solid red; display: inline-block; width: 150px; height: 20px;"></span>		Component Type: DIESEL ENGINE		Lab Location: Atlanta	
Address: <span style="border: 1px solid red; display: inline-block; width: 150px; height: 20px;"></span>		Manufacturer: LANDROVER		Data Analyst: JDT	
Phone Number: <span style="border: 1px solid red; display: inline-block; width: 150px; height: 20px;"></span>		Model: FLAT TAPPET		Sampled: 03-Oct-2014	
		Application: UNKNOWN		Received: 07-Oct-2014	
		Sump Capacity: 0 qt		Completed: 14-Oct-2014	
Filter Information		Miscellaneous Information		Product Information	
Filter Type: <span style="color: red;">Missing Information</span>				Product Manufacturer: PEAK	
Micron Rating: 0				Product Name:	
				Viscosity Grade: SAE 15W40	
Comments	Suggest Inspecting this unit for SEVERE PISTON wear; LUBRICANT and FILTER CHANGE is suggested if not done at sampling time. Piston metal is at a SEVERE LEVEL; Cylinder region metals (pistons, rings, liners etc.) are at a SIGNIFICANT LEVEL; LEAD is at a MODERATE LEVEL and may be OVERLAY METAL from MAIN/ROD BEARINGS; Abrasives (silicon/dirt) are at a MODERATE LEVEL; Sodium is at a MINOR LEVEL; Sodium sources: coolant (antifreeze), lube additive or supplement, and/or environmental contaminant; Please provide missing FLUID PRODUCT NAME to compare data to the correct standards.				

Sample #	Wear Metals (ppm)											Contaminant Metals (ppm)			Multi-Source Metals (ppm)					Additive Metals (ppm)				
	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorous	Zinc
1	203	7	3	180	18	29	25	0	0	0	48	99	11	0	37	0	1	0	13	620	1655	0	957	1259

Sample #	Sample Information							Contaminants			Fluid Properties					
	Date Sampled	Date Received	Lube Time	Unit Time	Lube Change	Lube Added	Filter Change	Fuel Dilution	Soot	Water	Viscosity 40°C	Viscosity 100 °C	Acid Number	Base Number	Oxidation	Nitration
			mi	mi		qt		% Vol	% Vol	% Vol	cSt	cSt	mg KOH/g	mg KOH/g	abs/cm	abs/0.1 mm
1	03-Oct-2014	07-Oct-2014	5000	184000	No	0	No	<1 - Estimate	<.1	<.1 - FTIR		14.9				

Sample #	Particle Count (particles/mL)										Additional Testing
	ISO Code	> 4 µm	> 6 µm	> 10 µm	> 14 µm	> 21 µm	> 38 µm	> 70 µm	> 100 µm	Test Method	
1	//										

Comments are advisory only and are based on the assumption that the sample and data submitted are valid. Missing fluid or component information limits the evaluation. No warranty is expressed or implied.

Historical Comments