

Overall report severity based on comments.

Component Information										Sample Information									
Component ID: DAVID LIVINGSTONE CUMMINS E										Tracking Number: 11265W02790									
Secondary ID: 5.9L										Lab Number: I-705491									
Component Type: DIESEL ENGINE										Lab Location: Indianapolis									
Manufacturer: DODGE										Data Analyst: FLG									
Model: 5.9 L										Sampled: 23-Apr-2012									
Application: TRANSPORTATION										Received: 27-Apr-2012									
Sump Capacity: 12 qt										Completed: 30-Apr-2012									
Miscellaneous Information										Product Information									
Filter Type: FULLFLOW Micron Rating: 15										Product Manufacturer: AMSOIL									
Miscellaneous:										Product Name: DEO SYN PREMIUM DIESEL OIL									
										Viscosity Grade: SAE 5W40									

Comments: Data indicates no abnormal findings. Resample at normal interval; Oil is suitable for continued use.

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	8	0	0	2	2	0	0	0	2	0	3	6	0	0	45	0	0	0	82	1065	884	0	1074	1256

Sample Information								Contaminants			Fluid Properties					
Sample #	Date Sampled	Date Received	Lube Time mi	Unit Time mi	Lube Change	Lube Added qt	Filter Change	Fuel Dilution % Vol	Soot % Vol	Water % Vol	Viscosity 40°C cSt	Viscosity 100 °C cSt	Acid Number mg KOH/g	Base Number mg KOH/g	Oxidation abs/cm	Nitration abs/0.1 mm
1	23-Apr-2012	27-Apr-2012	4583	110083	No		No	<1 - Estimate	<1	<1 - FTIR		14.1		6.43	12	8

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

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.