

Overall report severity based on comments:

Account Information	Component Information	Sample Information
Account Number: OILANA-7500-1016 Company Name: PACOCHA Contact: Address: PARK RIDGE, IL US Phone Number: 847-759-9800	Component ID: DODGE RAM 3500 E Secondary ID: Component Type: DIESEL ENGINE Manufacturer: CUMMINS Model: ISB Application: O-T-R TRUCKING Sump Capacity: 12 qt	Tracking Number: 11265W01587 Lab Number: A-244250 Lab Location: Atlanta Data Analyst: FLG Sampled: 23-Feb-2013 Received: 26-Feb-2013 Completed: 01-Mar-2013
Filter Information	Miscellaneous Information	Product Information
Filter Type: FULLFLOW & BYPASS Micron Rating: 20	Wildcard 1: Wildcard 2: Wildcard 3: Miscellaneous:	Product Manufacturer: AMSOIL 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.

	Wear Metals (ppm)										Contaminant Metals (ppm)			Multi-Source Metals (ppm)						Additive Metals (ppm)				
Sample #	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	21	0	0	4	0	1	0	0	0	0	2	3	1	0	31	0	0	0	20	170	1697	0	663	823
2	44	1	1	4	0	5	0	0	0	0	4	2	1	0	179	0	0	0	48	37	2040	0	658	744
3	11	0	0	2	0	0	0	0	0	0	2	7	2	0	15	0	0	0	25	97	2178	0	975	1096
4	12	0	0	1	1	1	0	0	0	0	9	7	2	0	12	0	0	0	26	82	2294	1	992	1184
5	15	0	0	1	1	1	0	0	0	0	4	8	1	0	47	2	0	0	35	1167	1071	0	1055	1352

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				% Vol	% Vol	% Vol	cSt	cSt	mg KOH/g	mg KOH/g	abs/cm	abs/0.1mm
1	17-May-2011	05-Jul-2011	5672	81398	Yes		Yes	7.2 - GC	0.9 - FTIR	<1 - FTIR		12.3		4.28	50	21
2	24-Jun-2011	05-Jul-2011	5791	86989	Yes		Yes	5.8 - GC	0.8 - FTIR	<1 - FTIR		9.2		4.13	39	23
3	01-Dec-2011	05-Dec-2011	6770	100359	No		No	0.2 - GC	<1 - FTIR	<1 - FTIR		14.3		6.57	18	17
4	14-Feb-2012	22-Feb-2012	9805	103396	Yes	11	No	<1 - Estimate	<1	<1 - FTIR		14.8		6.28	20	14
5	23-Feb-2013	28-Feb-2013	12356	131191	No		No	<1 - Estimate	<1	<1 - FTIR		15.7		6.55	19	9

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

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