

Lubricant Analysis Report

North America: +1-877-458-3315



Overall report severity based on comments.

Component Information	Sample Information				
Component ID: 512	Tracking Number: 16099J00437				
Secondary ID: 2012 Peterbilt 386	Lab Number: I-601271				
Component Type: DIESEL ENGINE	Lab Location: Indianapolis				
Manufacturer: CUMMINS	Data Analyst: RMF				
Model: ISX	Sampled: 11-Aug-2016				
Application: O-T-R TRUCKING	Submitted: 12-Aug-2016				
Sump Capacity: 46 gt	Received: <mark>19-Aug-2016</mark>				
, ,	Completed: 22-Aug-2016				
Miscellaneous Information	Product Information				
	Product Manufacturer: CHEVRON				
	Product Name: DELO 400 LE				
	Viscosity Grade: SAE 15W40				
	Secondary ID: 2012 Peterbilt 386 Component Type: DIESEL ENGINE Manufacturer: CUMMINS Model: ISX Application: O-T-R TRUCKING Sump Capacity: 46 qt				

equipment and fluid conditions. Base Number is MODERATELY LOW. As Base Number depletes, the ability to neutralize acids is diminished and corrosive wear may occur. Sludge and deposits may form. MODERATE POTASSIUM level could be a coolant indicator; Coolant leaks at this level will most likely not be detectable through normal diagnostics; Suggest MONITORING COOLANT LEVEL closely between samples; Aluminum is at a MINOR LEVEL; ALUMINUM sources in ENGINES include pistons, block and components (intake manifold, head, bearing caps), thrust bearings, main/rod bearing overlay or backing, alumina silica, or contamination from grease. Lubricant and filter change acknowledged. Your note was taken into consideration.

	Wear Metals (ppm)											ntamin als (p		Multi-Source Metals (ppm)					n)	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	Phosphorus	Zinc
1	11	0	0	1	12	0	0	0	0	0	8	4	0	0	9	0	0	0	7	108	1979	0	881	952
2	11	1	0	16	0	0	0	0	0	0	5	4	41	0	78	0	0	0	244	390	1381	0	1012	1146

		Sampl	e Infor	mation					Fluid Properties							
nple #	e Sampled	e Received	Lube Time	Unit Time	e Change	Lube Added	er Change	Fuel Dilution	Soot	Water	Viscosity 40°C	Viscosity 100 °C	Acid Number	Base Number	Oxidation	Nitration
Sar	Dat	Date	mi	mi	Lub	gal	Filte	% Vol	% Vol	% Vol	cSt	cSt	mg KOH/g	mg KOH/g	abs/cm	abs/0.1 mm
1	03-Jul-2016	11-Jul-2016	17998	514886	Yes	0	Yes	<1 - Estimate	0.1 - E2412	<.1 - FTIR		14.1		4.18	16	8
2	11-Aug-2016	19-Aug-2016	17395	532281	Yes	0	Yes	<1 - Estimate	0.3 - E2412	<.1 - FTIR		14.3		2.80	15	8

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				Particle	e Count	(particl	es/mL)				Additional Testin				
#															
Sample	ISO Code														
E	Based On	> 4	> 6	> 10	> 14	> 21	> 38	> 70	> 100						
Š	4/6/14	μm	μm	μm	μm	μm	μm	μm	μm	Method					
1	//														
2	//														

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		Data indicates no abnormal findings. Resample at normal interval. Lubricant and filter change acknowledged. Please provide
Comments	+	missing lubricant information. Manufacturer, product name, and viscosity grade are needed to properly evaluate data.

