

0	1	2	3	4
NORMAL		ABNORMAL		CRITICAL

Overall report severity based on comments.

Account Information		Component Information		Sample Information	
Account Number: OILANA-7501-2300 Company Name: VALLEY SYNTHETICS Contact: RICH LENTES Address: POB 25 VERADALE, WA 99037 US Phone Number: 509-924-3206		Component ID: SWANSON ISX Secondary ID: BOB SWANSON Component Type: DIESEL ENGINE Manufacturer: CUMMINS Model: ISX Application: O-T-R TRUCKING Sump Capacity: 11 gal		Tracking Number: 15295Y02372 Lab Number: S-632297 Lab Location: Salt Lake City Data Analyst: JDT Sampled: 14-Mar-2016 Submitted: 15-Mar-2016 Received: 17-Mar-2016 Completed: 18-Mar-2016	
Filter Information		Miscellaneous Information		Product Information	
Filter Type: FULLFLOW Micron Rating: 0				Product Manufacturer: SHELL Product Name: ROTELLA T Viscosity Grade: SAE 15W40	
Comments		Flagged data does not indicate an immediate need for maintenance action. Continue to observe the trend and monitor equipment and fluid conditions. Copper is at a MINOR LEVEL; COPPER is most likely LEACHING into the oil via the OIL COOLER core tubing. This typically DOES NOT REQUIRE MAINTENANCE ACTION unless there is evidence of COOLANT in the oil; FLAGGED ADDITIVE levels indicate slight LUBE MIXING; Lubricant and filter change acknowledged. Your note was taken into consideration.			

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	14	0	0	0	1	2	0	0	0	0	6	2	3	0	94	1	0	0	399	415	1591	0	1104	1292
2	19	0	0	1	18	7	0	0	0	0	3	3	4	0	0	0	0	0	18	9	2117	0	854	1077

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	02-Jul-2015	07-Jul-2015	6500	856321	No	0	No	<1 - Estimate	0.1 - E2412	<.1 - FTIR		14.7		4.15	14	8	
2	14-Mar-2016	17-Mar-2016	19577	944006	Yes	2	Yes	<1 - Estimate	<.1	<.1 - FTIR		15.4		4.86	15	8	

Sample #	Particle Count (particles/mL)										Additional Testing		
	ISO Code	Based On	> 4 µm	> 6 µm	> 10 µm	> 14 µm	> 21 µm	> 38 µm	> 70 µm	> 100 µm	Test 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 Comments	1 Flagged data does not indicate an immediate need for maintenance action. Continue to observe the trend and monitor equipment and fluid conditions. Base Number is SLIGHTLY LOW. As Base Number depletes, the ability to neutralize acids is diminished and corrosive wear may occur. Sludge and deposits may form. Flagged additive levels are different than what should be present for the lubricant identified for this component. This does not imply that the lubricant does not meet proper API, SAE, or ISO classifications.
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