



Lubricant Analysis Report

North America: +1-877-458-3315

0	1	2	3	4
NORMAL		ABNORMAL		CRITICAL

Overall report severity based on comments.

Component Information	Sample Information
Component ID: 50 TON CRANE E Secondary ID: 2018 PETERBILT 365 Component Type: DIESEL ENGINE Manufacturer: CUMMINS Model: ISX12 Application: CRANES Sump Capacity:	Tracking Number: 17023U03561 Lab Number: I-759218 Lab Location: Indianapolis Data Analyst: JAS Sampled: 05-Apr-2018 Received: 16-Apr-2018 Completed: 17-Apr-2018
Filter Information	Product Information
Filter Type: Information Requested Micron Rating: 0	Product Manufacturer: SHELL Product Name: ROTELLA T4 TRIPLE PROTECTION 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. Potassium is at a MINOR LEVEL; Potassium sources: coolant (antifreeze), lube additive or supplement, solder flux, coating on new bearings, rust preventive coating, or environmental. We acknowledge the COMPONENT INFORMATION (type, manufacturer and/or model) was provided, however we were not able to validate it within our database or from the manufacturer. Please contact the Data Analysis Department to clarify the information. Thank you. Lubricant and filter change acknowledged.

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	Phosphorus	Zinc
1	8	1	0	4	1	0	0	0	0	0	11	4	23	0	0	0	0	0	171	18	2083	0	979	1082

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	
			h	h		gal		% Vol	% Vol	% Vol	cSt	cSt	mg KOH/g	mg KOH/g	abs/cm	abs/0.1 mm	
1	05-Apr-2018	16-Apr-2018	244	1011	Yes	0	Yes	<1 - Estimate	<.1	<.1 - FTIR		14.1		6.40	14	7	

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		
	Based On 4/6/14											
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. Measurement uncertainty available upon request.

Historical Comments