



Lubricant Analysis Report

North America: +1-877-277-4921

0	1	2	3	4
NORMAL		ABNORMAL	CRITICAL	

Overall report severity based on comments.

Account Information		Component Information		Sample Information	
Account Number: OPSTRT-1038-0000 Company Name: WIELENBERG TRUCKING INC Contact: EDWIN WIELENBERG Address: 25754 COUNTY 6 GREY EAGLE, MN 56336 US Phone Number: 320-267-6894		Component ID: 16357M07949 E Secondary ID: CENTER TAMD31 1987 MECH 4 CYL Component Type: DIESEL ENGINE Manufacturer: VOLVO Model: Information Requested Application: TRANSPORTATION Sump Capacity:		Tracking Number: 16357M07949 Lab Number: I-518939 Lab Location: Indianapolis Data Analyst: CMD Sampled: 05-Sep-2020 Received: 17-Sep-2020 Completed: 18-Sep-2020	
Filter Information		Miscellaneous Information		Product Information	
Filter Type: Information Requested Micron Rating: 0				Product Manufacturer: MOBIL Product Name: DELVAC SERIES 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. FUEL DILUTION is at a MINOR LEVEL. FUEL DILUTION possibly caused by excessive idling; Nickel is at a MINOR LEVEL; Possible valve train (valves, stems, guides etc.) metal; The fluid identified is the name of a series that includes several products. Please provide the specific type of fluid (Product Name) to ensure proper standards are used for an accurate evaluation. Please provide COMPONENT MODEL number to compare data to the correct standards for this component. 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	15	0	2	4	1	1	2	0	0	0	7	5	0	0	50	0	0	0	53	540	1818	0	815	956

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 No. D4739	Oxidation	Nitration	
			h	h		gal		% Vol	% Vol	% Vol	cSt	cSt	mg KOH/g	mg KOH/g	abs/cm	abs/0.1 mm	
1	05-Sep-2020	17-Sep-2020	245	3957	Yes	0	Yes	2.2 - GC	0.2 - E2412	<.1 - FTIR		13.4		7.96	19	9	

Sample #	Particle Count (particles/mL)										Additional Testing
	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	//										

Comments are advisory only and are based on the assumption that the sample and data submitted are valid. Results relate only to the items tested. Missing fluid or component information limits the evaluation. No warranty is expressed or implied. Measurement uncertainty available upon request.

Historical Comments