

Overall report severity based on comments.

Account Information		Component Information		Sample Information	
Account Number: 122750-0001-0000 Company Name: ARCH OIL COMMENTS Contact: Address: Phone Number:		Component ID: #4809 Secondary ID: Component Type: DIESEL ENGINE Manufacturer: VOLVO Model: XC90 Application: UNKNOWN Sump Capacity:		Tracking Number: 00009612906 Lab Number: Z-153281 Lab Location: Poznan Data Analyst: EAD Sampled: 28-Aug-2020 Received: 08-Sep-2020 Completed: 09-Sep-2020	
Filter Information		Miscellaneous Information		Product Information	
Filter Type: Information Requested Micron Rating: 0				Product Manufacturer: MANNOL Product Name: Viscosity Grade: SAE 5W40	
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; Please provide missing FLUID PRODUCT NAME to compare data to the correct standards. Please provide the APPLICATION (transportation, off-highway, gas/oil field, industrial, marine, mining, automotive, etc.) for a more thorough analysis.				

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	16	0	0	4	1	1	1	0	0	0	16	2	0	0	41	0	0	0	49	85	2787	0	925	1054

Sample Information								Contaminants			Fluid Properties					
Sample #	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
			km	km		gal		% Vol	% Vol	% Vol	cSt	cSt	mg KOH/g	mg KOH/g	abs/cm	abs/0.1 mm
1	28-Aug-2020	08-Sep-2020	1900	193778	No	0	Unk	2.0 - GC	<.1	<.1 - FTIR	72.1	12.5	2.69	8.22	24	7

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