POLARIS Laboratories

Lubricant Analysis Report

North America: +1-877-808-3750
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0	1	2	3	4
NORMAL		ABNORMAL		CRITICAL

Overall report severity based on comments.

Account Information		Component Information		Sample Information	
Account Number:	122750-0001-0000	Component ID:	# 5772	Tracking Number:	00009676681
Company Name:	ARCH OIL COMMENTS	Secondary ID:		Lab Number:	Z-213404
Contact:		Component Type:	UNLEADED GASOLINE ENGINE	Lab Location:	Poznan
Address:		Manufacturer:	DUCATI	Data Analyst:	RTF
Phone Number:		Model:	Information Requested	Sampled:	2021
		Application:	AUTOMOTIVE	Received:	24-Sep-2021
		Sump Capacity:		Completed:	11-Oct-2021

Filter Information		Miscellaneous Information	Product Information	
Filter Type:	Information Requested		Product Manufacturer:	MOTUL
Micron Rating:	0		Product Name:	7100 4T
			Viscosity Grade:	SAE 10W50

Comments	
	Flagged data does not indicate an immediate need for maintenance action. Continue to observe the trend and monitor equipment and fluid conditions. BEARING/BUSHING METAL is at a MODERATE LEVEL: Potassium is at a MODERATE LEVEL; Potassium sources: coolant (antifreeze), lube additive or supplement, solder flux, coating on new bearings, rust preventive coating, or environmental. OXIDATION is at a MODERATE level, which may be due to extended drain interval or high operating temperature. FUEL DILUTION is at a MINOR LEVEL. FUEL DILUTION has caused viscosity to decrease slightly below grade; FUEL DILUTION reduces the viscosity of the lubricant which decreases FILM STRENGTH and LUBRICITY and may lead to increased wear. Please provide COMPONENT MODEL number to compare data to the correct standards for this component. Please provide this units sump capacity with next sample.

	Wear Metals (ppm)										Contaminant			Multi-Source Metals (ppm)						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	15	0	1	6	67	13	1	0	0	0	13	4	49	0	31	0	0	0	10	127	2215	0	991	1155

	Sample Information							Contaminants			Fluid Properties					
Sample #	Date Sampled	Date Received	Lube Time km	Unit Time km	Lube Change	Lube Added gal	Filter Change	Fuel Dilution %	Soot %	Water %	Viscosity 40°C cSt	Viscosity 100 °C cSt	Acid Number mg KOH / g	Base No. D4739 mg KOH / g	Oxidation abs / cm	Nitration abs / 0.1mm
1	N/A	24-Sep-2021	1400	55000	Unk	0	Unk	2.1 - GC	<.1	<.1 - FTIR		15.8	2.44	7.18	24	6

	Particle Count (particles/mL)										Additional Testing
Sample #	ISO Code Based On 4/6/14	> 4 particles / mL	> 6 particles / mL	> 10 particles / mL	> 14 particles / mL	> 21 particles / mL	> 38 particles / mL	> 70 particles / mL	> 100 particles / mL	Test Method	
1	/ /										