

OIL ANALYSIS REPORT

Sample Rating Trend

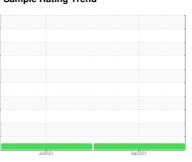
NORMAL



CATERPILLAR R1600 SCP219

Component Transmission (Manual)

PETRO CANADA PRODUF





Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the fluid.

Fluid Condition

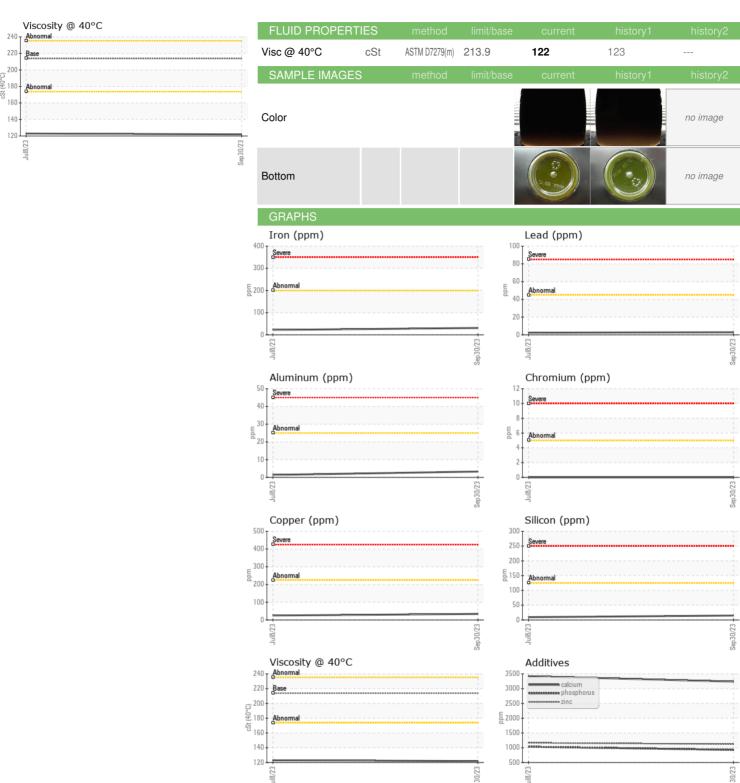
Additive levels indicate the addition of a different brand, or type of fluid. Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The condition of the fluid is acceptable for the time in service.

RO TO-4 SAE 50 (-	GAL)		Jul2023	Sep2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0840209	WC0749525	
Sample Date		Client Info		30 Sep 2023	08 Jul 2023	
Machine Age	hrs	Client Info		1585	765	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	Not Changd	
Sample Status				NORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>200	31	22	
Chromium	ppm	ASTM D5185(m)	>5	0	0	
Nickel	ppm	ASTM D5185(m)	>5	0	<1	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)	>7	<1	<1	
Aluminum	ppm	ASTM D5185(m)	>25	3	1	
Lead	ppm	ASTM D5185(m)	>45	3	2	
Copper	ppm	ASTM D5185(m)	>225	34	25	
Tin	ppm	ASTM D5185(m)	>10	<1	<1	
Antimony	ppm	ASTM D5185(m)		0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	4	3	
Barium	ppm	ASTM D5185(m)	0	2	2	
Molybdenum	ppm	ASTM D5185(m)	0	5	<1	
Manganese	ppm	ASTM D5185(m)	0	<1	1	
Magnesium	ppm	ASTM D5185(m)	9	81	13	
Calcium	ppm	ASTM D5185(m)	3114	3237	3421	
Phosphorus	ppm	ASTM D5185(m)	1099	926	1035	
Zinc	ppm	ASTM D5185(m)	1245	1121	1167	
Sulfur	ppm	ASTM D5185(m)	7086	4557	4926	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>125	15	9	
Sodium	ppm	ASTM D5185(m)		4	4	
Potassium	ppm	ASTM D5185(m)	>20	2	2	
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
Precipitate	scalar	Visual*	NONE	NONE	NONE	
Silt	scalar	Visual*	NONE	NONE	NONE	
Debris	scalar	Visual*	NONE	NONE	NONE	
Sand/Dirt	scalar	Visual*	NONE	LIGHT	NONE	
Appearance	scalar	Visual*	NORML	NORML	NORML	
Odor	scalar	Visual*	NORML	NORML	NORML	
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	
Free Water	scalar	Visual*		NEG	NEG	

Contact/Location: Tony Tees - KIR370KIR



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

Test Package : MOB 1

: WC0840209

: 02588673 : 5657739

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received Diagnosed

Diagnostician : Kevin Marson

: 12 Oct 2023

: 12 Oct 2023

Agnico Eagle Canada

1350 Government Rd. W, MACASSA COMPLEX Kirkland Lake, ON CA P2N 3J1

Contact: Tony Tees tony.tees@agnicoeagle.com

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

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