

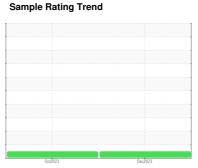
OIL ANALYSIS REPORT



CATERPILLAR R1600H SCP222

Component **Rear Differential**

PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)





Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

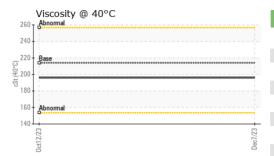
Fluid Condition

The condition of the oil is acceptable for the time in service.

Comparison Camping C	RO TO-4 SAE 50 (-	GAL)		Oct2023	Dec2023		
Comparison	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age	Sample Number		Client Info		WC0883809	WC0750480	
Dil Age	Sample Date		Client Info		07 Dec 2023	12 Oct 2023	
Dil Changed Client Info N/A Not Changd	Machine Age	hrs	Client Info		0	260	
NORMAL N	Oil Age	hrs	Client Info		0	260	
Water WC Method S.2 NEG NEG STATE NEG NEG STATE NEG NEG STATE NEG STATE NEG NEG STATE NEG NEG STATE	Oil Changed		Client Info		N/A	Not Changd	
Water WC Method .2 NEG NEG WEAR METALS method limit/base current history1 history2 oron ppm ASTM D5185(m) >500 56 31 Chromium ppm ASTM D5185(m) >3 <1 0 Nickel ppm ASTM D5185(m) >2 0 0 Silver ppm ASTM D5185(m) >2 <1 <1 Aluminum ppm ASTM D5185(m) >2 <1 <1 Aluminum ppm ASTM D5185(m) >30 1 <1 Aluminum ppm ASTM D5185(m) >10 71 46 Copper ppm ASTM D5185(m) >5 2 1 Antimony ppm ASTM D5185(m) >5 0 0 Vanadium ppm ASTM D5185(m) 0 0	Sample Status				NORMAL	NORMAL	
WEAR METALS method limit/base current history1 history2 ron ppm ASTM D5185(m) >500 56 31	CONTAMINATIO	N	method	limit/base	current	history1	history2
Potential Pote	Water		WC Method	>.2	NEG	NEG	
Chromium	WEAR METALS		method	limit/base	current	history1	history2
ASTM D5185(m) ASTM D5185(m) D5 ASTM D5185(m) ASTM D5185(m) D7 ASTM D5185(m) D	Iron	ppm	ASTM D5185(m)	>500	56	31	
Silver	Chromium	ppm	ASTM D5185(m)	>3	<1	<1	
Silver	Nickel	ppm	ASTM D5185(m)	>3	<1	0	
Aluminum	Titanium	ppm	ASTM D5185(m)	>2	0	0	
Lead	Silver	ppm	ASTM D5185(m)	>2	<1	<1	
Description	Aluminum	ppm	ASTM D5185(m)	>30	1	<1	
Antimony	Lead	ppm	ASTM D5185(m)	>13	2	1	
Antimony	Copper	ppm	ASTM D5185(m)	>103	71	46	
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 7 8 Barium ppm ASTM D5185(m) 0 7 7 Molybdenum ppm ASTM D5185(m) 0 0 0 Magnesium ppm ASTM D5185(m) 9 10 10 Phosphorus ppm ASTM D5185(m) 3114 3024 2947 Phosphorus ppm ASTM D5185(m) 1099 1010 1030 Phosphorus ppm ASTM D5185(m) 7086 8617 9278 Sulfur ppm ASTM D5185(m) >100 4 4 <td>Tin</td> <td>ppm</td> <td>ASTM D5185(m)</td> <td>>5</td> <td>2</td> <td>1</td> <td></td>	Tin	ppm	ASTM D5185(m)	>5	2	1	
Description	Antimony	ppm	ASTM D5185(m)	>5	0	0	
Cadmium ppm ASTM D5185(m) 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 2 7 8 Barium ppm ASTM D5185(m) 0 7 7 Molybdenum ppm ASTM D5185(m) 0 0 0 Manganese ppm ASTM D5185(m) 0 1 <1	Vanadium	ppm	ASTM D5185(m)		0	0	
ADDITIVES method limit/base current history1 history2	Beryllium	ppm	ASTM D5185(m)		0	0	
Soron ppm ASTM D5185(m) 2 7 8	Cadmium	ppm	ASTM D5185(m)		0	0	
Description	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185(m) 0 0 0 Manganese ppm ASTM D5185(m) 0 1 <1	Boron	ppm	ASTM D5185(m)	2	7	8	
Manganese ppm ASTM D5185(m) 0 1 <1 Magnesium ppm ASTM D5185(m) 9 10 10 Calcium ppm ASTM D5185(m) 3114 3024 2947 Phosphorus ppm ASTM D5185(m) 1099 1010 1030 Zinc ppm ASTM D5185(m) 1245 1175 1178 Sulfur ppm ASTM D5185(m) 7086 8617 9278 Lithium ppm ASTM D5185(m) <1	Barium	ppm	ASTM D5185(m)	0	7	7	
Magnesium ppm ASTM D5185(m) 9 10 10 Calcium ppm ASTM D5185(m) 3114 3024 2947 Phosphorus ppm ASTM D5185(m) 1099 1010 1030 Zinc ppm ASTM D5185(m) 1245 1175 1178 Sulfur ppm ASTM D5185(m) 7086 8617 9278 Lithium ppm ASTM D5185(m) <1	Molybdenum	ppm	ASTM D5185(m)	0	0	0	
Calcium ppm ASTM D5185(m) 3114 3024 2947 Phosphorus ppm ASTM D5185(m) 1099 1010 1030 Zinc ppm ASTM D5185(m) 1245 1175 1178 Sulfur ppm ASTM D5185(m) 7086 8617 9278 Lithium ppm ASTM D5185(m) <1	Manganese	ppm	ASTM D5185(m)	0	1	<1	
Phosphorus ppm ASTM D5185(m) 1099 1010 1030 Zinc ppm ASTM D5185(m) 1245 1175 1178 Sulfur ppm ASTM D5185(m) 7086 8617 9278 Lithium ppm ASTM D5185(m) <1 <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >100 4 4 Sodium ppm ASTM D5185(m) 5 4	Magnesium	ppm	ASTM D5185(m)	9	10	10	
Zinc ppm ASTM D5185(m) 1245 1175 1178 Sulfur ppm ASTM D5185(m) 7086 8617 9278 Lithium ppm ASTM D5185(m) <1	Calcium	ppm	ASTM D5185(m)	3114	3024	2947	
Sulfur ppm ASTM D5185(m) 7086 8617 9278 Lithium ppm ASTM D5185(m) <1 <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >100 4 4 Sodium ppm ASTM D5185(m) 5 4	Phosphorus	ppm					
Lithium ppm ASTM D5185(m) <1 <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >100 4 4 Sodium ppm ASTM D5185(m) 5 4	Zinc	ppm	ASTM D5185(m)	1245	1175	1178	
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >100 4 4 Sodium ppm ASTM D5185(m) 5 4	Sulfur	ppm	ASTM D5185(m)	7086	8617	9278	
Silicon ppm ASTM D5185(m) >100 4 4 Sodium ppm ASTM D5185(m) 5 4	Lithium	ppm	ASTM D5185(m)		<1	<1	
Sodium ppm ASTM D5185(m) 5 4	CONTAMINANTS	;	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185(m)	>100	4	4	
Potassium ppm ASTM D5185(m) >20 0 <1	Sodium	ppm	ASTM D5185(m)		5	4	
	Potassium	ppm	ASTM D5185(m)	>20	0	<1	

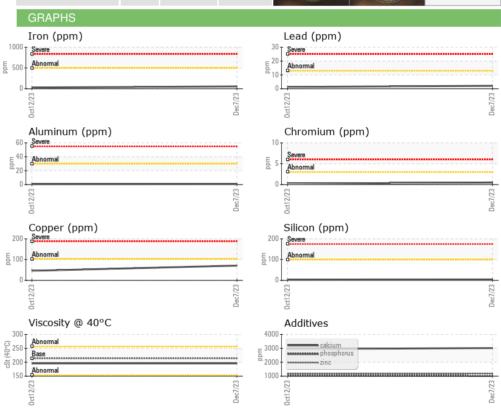


OIL ANALYSIS REPORT



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	NONE	NONE	
Appearance	scalar	Visual*	NORML	NORML	NORML	
Odor	scalar	Visual*	NORML	NORML	NORML	
Emulsified Water	scalar	Visual*	>.2	NEG	NEG	
Free Water	scalar	Visual*		NEG	NEG	
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	213.9	196	196	

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					no image
Bottom					no image





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No. Lab Number Unique Number : 5696650

Test Package : MOB 1

: WC0883809 : 02603565

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

: 15 Dec 2023 : 15 Dec 2023 Diagnostician : Wes Davis

Agnico Eagle Canada 1350 Government Rd. W, MACASSA COMPLEX

Kirkland Lake, ON **CA P2N 3J1**

Contact: Mitch Lamontagne AEM_KL_macassaoilsampleresults@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.

T: (705)567-5208 F: (705)567-5221