

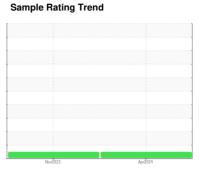
# **OIL ANALYSIS REPORT**



# Area [200094162] CATERPILLAR 1300G SCP217

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

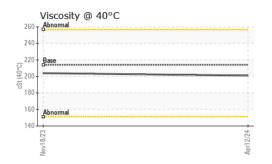
## **Fluid Condition**

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

Sample Date							
Sample Date	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Machine Age         hrs         Client Info         0         2537            Oil Age         hrs         Client Info         0         0            Oil Changed         Client Info         N/A         Not Changd            Sample Status         NORMAL         NORMAL            CONTAMINATION         method         limit/base         current         history1         history2           Water         WC Method         >.2         NEG         NEG            WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185(m)         >500         51         54            Chromium         ppm         ASTM D5185(m)         >3         <1	Sample Number		Client Info		wc	WC0879695	
Dil Age	Sample Date		Client Info		12 Apr 2024	18 Nov 2023	
Contamped   Collection   Collection   Contamped   Collection   Collection	Machine Age	hrs	Client Info		0	2537	
CONTAMINATION   method   limit/base   current   history1   history2	Oil Age	hrs	Client Info		0	0	
Water   WC Method   S.2   NEG   NEG   SEG   NEG   WEAR METALS   method   limit/base   current   history1   history2	Oil Changed		Client Info		N/A	Not Changd	
Water         WC Method         .2         NEG         NEG            WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185(m)         >500         51         54            Chromium         ppm         ASTM D5185(m)         >3         <1         <1            Nickel         ppm         ASTM D5185(m)         >3         0         <1            Titanium         ppm         ASTM D5185(m)         >2         0         0            Silver         ppm         ASTM D5185(m)         >2         0         <1            Aluminum         ppm         ASTM D5185(m)         >30         2         2            Aluminum         ppm         ASTM D5185(m)         >10         0             Copper         ppm         ASTM D5185(m)         >10         0             Copper         ppm         ASTM D5185(m)         5         0         <1            Vanadium         ppm         ASTM D5185(m)         0         0	Sample Status				NORMAL	NORMAL	
WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185(m)         >500         51         54            Chromium         ppm         ASTM D5185(m)         >3         <1         <1            Nickel         ppm         ASTM D5185(m)         >3         0         <1            Titanium         ppm         ASTM D5185(m)         >2         0         <1            Silver         ppm         ASTM D5185(m)         >2         0         <1            Aluminum         ppm         ASTM D5185(m)         >30         2         2            Aluminum         ppm         ASTM D5185(m)         >10         0            Lead         ppm         ASTM D5185(m)         >5         1         4            Lead         ppm         ASTM D5185(m)         >5         1         4            Lead         ppm         ASTM D5185(m)         >5         1         4            Antimony         ppm         ASTM D5185(m)         >5         0	CONTAMINATIO	N	method	limit/base	current	history1	history2
Iron	Water		WC Method	>.2	NEG	NEG	
Chromium         ppm         ASTM D5185(m)         >3         <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185(m)	>500	51	54	
Titanium	Chromium	ppm	ASTM D5185(m)	>3	<1	<1	
Silver	Nickel	ppm	ASTM D5185(m)	>3	0	<1	
Aluminum	Titanium	ppm	ASTM D5185(m)	>2	0	0	
Lead	Silver	ppm	ASTM D5185(m)	>2	0	<1	
Copper         ppm         ASTM D5185(m)         >103         <1         <1            Tin         ppm         ASTM D5185(m)         >5         1         4            Antimony         ppm         ASTM D5185(m)         >5         0         <1	Aluminum	ppm	ASTM D5185(m)	>30	2	2	
Tin	Lead	ppm	ASTM D5185(m)	>13	0	0	
Antimony         ppm         ASTM D5185(m)         >5         0         <1            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         1         2            Barium         ppm         ASTM D5185(m)         0         <1	Copper	ppm	ASTM D5185(m)	>103	<1	<1	
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         1         2            Barium         ppm         ASTM D5185(m)         0         <1         2            Molybdenum         ppm         ASTM D5185(m)         0         <1         <1            Magnesium         ppm         ASTM D5185(m)         0         <1         <1            Magnesium         ppm         ASTM D5185(m)         3114         3444         3237            Phosphorus         ppm         ASTM D5185(m)         1099         873         1021            Zinc         ppm         ASTM D5185(m)         7086         10697         6537            Sulfur         ppm         ASTM D5185(m)         >100         19         20	Tin	ppm	ASTM D5185(m)	>5	1	4	
Beryllium	Antimony	ppm	ASTM D5185(m)	>5	0	<1	
Cadmium         ppm         ASTM D5185(m)         0         0            ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         2         1         2            Barium         ppm         ASTM D5185(m)         0         <1	Vanadium	ppm	ASTM D5185(m)		0	0	
ADDITIVES	Beryllium	ppm	ASTM D5185(m)		0	0	
Boron   ppm   ASTM D5185(m)   2   1   2	Cadmium	ppm	ASTM D5185(m)		0	0	
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185(m)         0         0         0            Manganese         ppm         ASTM D5185(m)         0         <1         <1            Magnesium         ppm         ASTM D5185(m)         9         12         12            Calcium         ppm         ASTM D5185(m)         3114         3444         3237            Phosphorus         ppm         ASTM D5185(m)         1099         873         1021            Zinc         ppm         ASTM D5185(m)         1245         1084         1213            Sulfur         ppm         ASTM D5185(m)         7086         10697         6537            Lithium         ppm         ASTM D5185(m)         <1         <1            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         >100         19         20            Sodium         ppm         ASTM D5185(m)         <1         2	Boron	ppm	ASTM D5185(m)	2	1	2	
Manganese         ppm         ASTM D5185(m)         0         <1         <1            Magnesium         ppm         ASTM D5185(m)         9         12         12            Calcium         ppm         ASTM D5185(m)         3114         3444         3237            Phosphorus         ppm         ASTM D5185(m)         1099         873         1021            Zinc         ppm         ASTM D5185(m)         1245         1084         1213            Sulfur         ppm         ASTM D5185(m)         7086         10697         6537            Lithium         ppm         ASTM D5185(m)         <1	Barium	ppm	ASTM D5185(m)	0	<1	2	
Magnesium         ppm         ASTM D5185(m)         9         12         12            Calcium         ppm         ASTM D5185(m)         3114         3444         3237            Phosphorus         ppm         ASTM D5185(m)         1099         873         1021            Zinc         ppm         ASTM D5185(m)         1245         1084         1213            Sulfur         ppm         ASTM D5185(m)         7086         10697         6537            Lithium         ppm         ASTM D5185(m)         < 1         <1            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         >100         19         20            Sodium         ppm         ASTM D5185(m)         <1         2	Molybdenum	ppm	ASTM D5185(m)	0	0	0	
Calcium         ppm         ASTM D5185(m)         3114         3444         3237            Phosphorus         ppm         ASTM D5185(m)         1099         873         1021            Zinc         ppm         ASTM D5185(m)         1245         1084         1213            Sulfur         ppm         ASTM D5185(m)         7086         10697         6537            Lithium         ppm         ASTM D5185(m)         <1	Manganese		ASTM D5185(m)	0	<1	<1	
Phosphorus         ppm         ASTM D5185(m)         1099         873         1021            Zinc         ppm         ASTM D5185(m)         1245         1084         1213            Sulfur         ppm         ASTM D5185(m)         7086         10697         6537            Lithium         ppm         ASTM D5185(m)         <1         <1            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         >100         19         20            Sodium         ppm         ASTM D5185(m)         <1         2	Magnesium	ppm	ASTM D5185(m)	9	12	12	
Phosphorus         ppm         ASTM D5185(m)         1099         873         1021            Zinc         ppm         ASTM D5185(m)         1245         1084         1213            Sulfur         ppm         ASTM D5185(m)         7086         10697         6537            Lithium         ppm         ASTM D5185(m)         <1         <1            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         >100         19         20            Sodium         ppm         ASTM D5185(m)         <1         2	Calcium		ASTM D5185(m)	3114	3444	3237	
Zinc         ppm         ASTM D5185(m)         1245         1084         1213            Sulfur         ppm         ASTM D5185(m)         7086         10697         6537            Lithium         ppm         ASTM D5185(m)         <1         <1            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         >100         19         20            Sodium         ppm         ASTM D5185(m)         <1	Phosphorus		, ,		873	1021	
Sulfur         ppm         ASTM D5185(m)         7086         10697         6537            Lithium         ppm         ASTM D5185(m)         <1         <1            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         >100         19         20            Sodium         ppm         ASTM D5185(m)         <1	•			1245	1084	1213	
Lithium         ppm         ASTM D5185(m)         <1         <1            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         >100         19         20            Sodium         ppm         ASTM D5185(m)         <1	Sulfur				10697	6537	
Silicon         ppm         ASTM D5185(m)         >100         19         20            Sodium         ppm         ASTM D5185(m)         <1         2	Lithium		ASTM D5185(m)		<1	<1	
Sodium         ppm         ASTM D5185(m)         <1	CONTAMINANT	S	method	limit/base	current	history1	history2
Sodium         ppm         ASTM D5185(m)         <1         2	Silicon	ppm	ASTM D5185(m)	>100	19	20	
FF			. ,		-		
	Potassium	ppm	. ,	>20	<1	2	

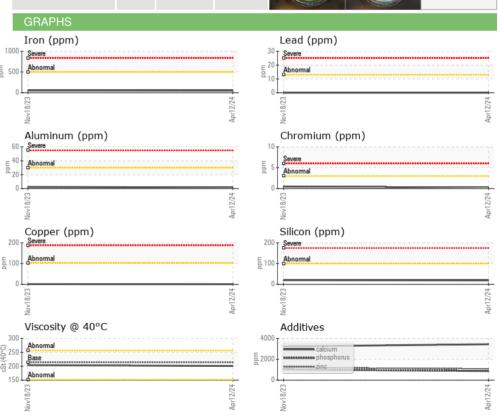


## **OIL ANALYSIS REPORT**



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	VLITE	
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
Appearance	scalar	Visual*	NORML	NORML	NORML	
Odor	scalar	Visual*	NORML	NORML	NORML	
<b>Emulsified Water</b>	scalar	Visual*	>.2	NEG	NEG	
Free Water	scalar	Visual*		NEG	NEG	
FLUID PROPERT	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	213.9	201	204	

SAIVIPLE IIVIAGES	method	iiiiii/base	current	riistory i	riistoryz
Color					no image
Bottom					no image
GRAPHS					





ISO 17025:2017
Accredited
Laboratory

Labo Sam

Laboratory : WearChed
Sample No. : WC
Lab Number : 02630669
Unique Number : 5763801

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC Received : 22 Apr 2024

 Received
 : 22 Apr 2024

 Tested
 : 22 Apr 2024

 Diagnosed
 : 22 Apr 2024 - Wes Davis

Agnico Eagle Canada 1350 Government Rd. W, MACASSA COMPLEX Kirkland Lake, ON

Kirkland Lake, ON CA P2N 3J1 Contact: Mitch Lamontagne

Test Package : MOB 1
To discuss this sample report, contact Customer Service at 1-800-268-2131.

AEM\_KL\_macassaoilsampleresults@agnicoeagle.com T: (705)567-5208

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.

oplied. F: (705)567-5221
Contact/Location: Mitch Lamontagne - KIR370KIR