

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id CATERPILLAR R1600G SCP215 Component Rear Right Planetary

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

DIAGNOSIS	SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		WC0928355	WC0826252	
Resample at the next service interval to monitor.	Sample Date		Client Info		06 Apr 2024	16 Feb 2024	
Wear	Machine Age	hrs	Client Info		3621	3275	
All component wear rates are normal.	Oil Age	hrs	Client Info		0	0	
Contamination	Oil Changed		Client Info		Not Changd	Changed	
There is no indication of any contamination in the bil.	Sample Status				NORMAL	NORMAL	
	CONTAMINATIO	N	method	limit/base	current	history1	history2
Fluid Condition The condition of the oil is acceptable for the time in service.	Water		WC Method		NEG	NEG	
	WEAR METALS		method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185(m)	>500	18	141	
	Chromium	ppm	ASTM D5185(m)	>10	0	1	
	Nickel	ppm	ASTM D5185(m)	>10	0	<1	
	Titanium	ppm	ASTM D5185(m)		0	0	
	Silver	ppm	ASTM D5185(m)		0	0	
	Aluminum	ppm	ASTM D5185(m)	>25	2	5	
	Lead	ppm	ASTM D5185(m)	>25	0	<1	
	Copper	ppm	ASTM D5185(m)	>75	2	27	
	Tin	ppm	ASTM D5185(m)	>10	0	1	
	Antimony	ppm	ASTM D5185(m)	>5	0	2	
	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	0	0	
	Molybdenum	ppm	ASTM D5185(m)	0	<1	<1	
	Manganese	ppm	ASTM D5185(m)	0	<1	1	
	Magnesium	ppm	ASTM D5185(m)	9	13	15	
	Calcium	ppm	ASTM D5185(m)	3114	3543	3692	
	Phosphorus	ppm	ASTM D5185(m)	1099	892	876	
	Zinc	ppm	ASTM D5185(m)	1245	1085	1005	
	Sulfur	ppm	ASTM D5185(m)	7086	11071	7447	
	Lithium	ppm	ASTM D5185(m)		<1	<1	
	CONTAMINANTS	3	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185(m)	>75	7	14	
	Sodium	ppm	ASTM D5185(m)		<1	5	
	Potassium	ppm	ASTM D5185(m)	>20	1	10	



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Viscosity @ 40°C	
240 -	
220 - Base \$ 200 - 4 \$ 200 - 4	
······································	
160 Abnormal	
140	
eb 16,24	Apr6/24

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 Wa	ater scalar	Visual*	>0.2	NEG	NEG	
Free Water	scalar	Visual*		NEG	NEG	
FLUID PRC	PERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	213.9	199	208	
SAMPLE IN	NAGES	method	limit/base	current	history1	history2
Color						no image
Bottom						no image
GRAPHS						
Iron (ppm)				Lead (ppm)		
2000 Severe			150			
1000			E 100) + 📮		
Abnormal			- 50 	Abnormal		
6/24			Apr6/24	-		
Feb 16/2 ⁴			Apr	Feb16/24		
Aluminum (ppm)			Chromium (p	pm)	
100 Severe			30	0 CVCIC		
50 - Abnormal			<u>ل</u> 10	Abnormal		
Abnormal						
6/24			Apr6/24	6/24		
Feb 16/2*			Api	Feb16/24		
Copper (ppi	m)			Silicon (ppm)		
200 Severe			300	Severe		
100 - Abnormal			트 ²⁰⁰			
0						
Feb16/24			Apr6/24	Feb16/24		
Feb			Ap	Feb		
Viscosity @	40°C			Additives		
300 Abnormal			4000	calcium	1	
Base			틆 2000	- herease phosphoru	S	
150 Abnormal			(
16/24			r6/24	16/24		
Feb 1			Api	Feb 1		
Abnomal Base Abnomal 150 * : WearCheck - C : : WC0928355 er : 02627954 er : 5761086	8-1175 Appleb Rece Teste	ived :10	Apr6/24	- 5H9	Agnico I rernment Rd. W, MAC	Eagle Cana CASSA COMPI land Lake, (



 Accredited Laboratory
 Unique Number
 : 5761086
 Diagnosed
 : 10 Apr 2024 - Wes Davis
 CA P2N 3J1

 Test Package
 : MOB 1
 Contact: Mitch Lamontagne

 To discuss this sample report, contact Customer Service at 1-800-268-2131.
 AEM_KL_macassaoilsampleresults@agnicoeagle.com

 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 T: (705)567-5208

 Validity of results and interpretation are based on the sample and information as supplied.
 F: (705)567-5221

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CALA

ISO 17025:2017

Contact/Location: Mitch Lamontagne - KIR370KIR