



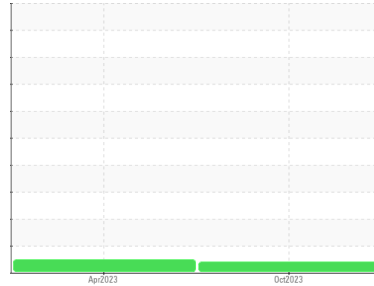
OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY



Machine Id
CATERPILLAR R1600 SCP210
 Component
Transmission (Manual)
 Fluid
PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)



DIAGNOSIS

▲ Recommendation

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

Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The condition of the fluid is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0835191	WC0777369	---
Sample Date	Client Info		15 Oct 2023	17 Apr 2023	---
Machine Age	hrs	Client Info	10970	10539	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			ABNORMAL	NORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>200	37	29	---
Chromium	ppm	ASTM D5185(m)	>5	0	0	---
Nickel	ppm	ASTM D5185(m)	>5	0	0	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)	>7	<1	<1	---
Aluminum	ppm	ASTM D5185(m)	>25	2	2	---
Lead	ppm	ASTM D5185(m)	>45	3	2	---
Copper	ppm	ASTM D5185(m)	>225	98	38	---
Tin	ppm	ASTM D5185(m)	>10	<1	<1	---
Antimony	ppm	ASTM D5185(m)		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	18	18	---
Barium	ppm	ASTM D5185(m)	0	<1	<1	---
Molybdenum	ppm	ASTM D5185(m)	0	3	3	---
Manganese	ppm	ASTM D5185(m)	0	<1	<1	---
Magnesium	ppm	ASTM D5185(m)	9	22	23	---
Calcium	ppm	ASTM D5185(m)	3114	3520	3516	---
Phosphorus	ppm	ASTM D5185(m)	1099	848	917	---
Zinc	ppm	ASTM D5185(m)	1245	997	998	---
Sulfur	ppm	ASTM D5185(m)	7086	5401	5447	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS

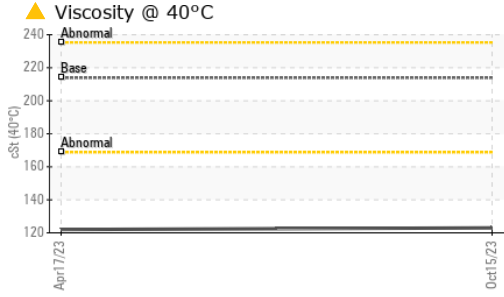
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>125	9	9	---
Sodium	ppm	ASTM D5185(m)		6	5	---
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	---

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	VLITE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	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	---



OIL ANALYSIS REPORT



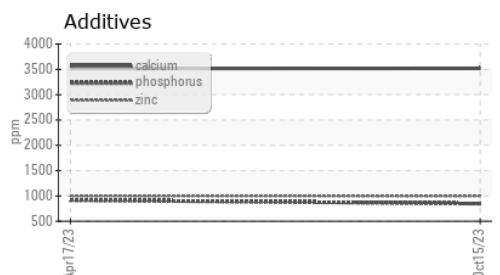
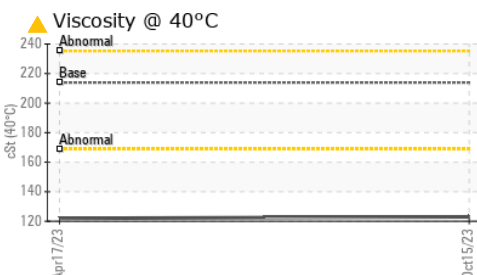
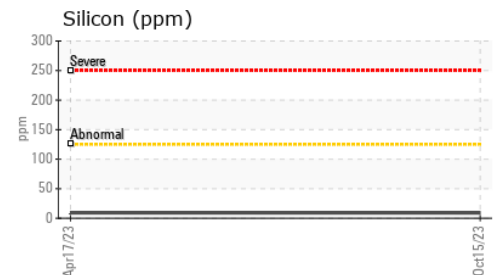
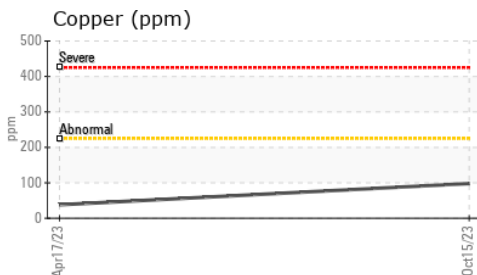
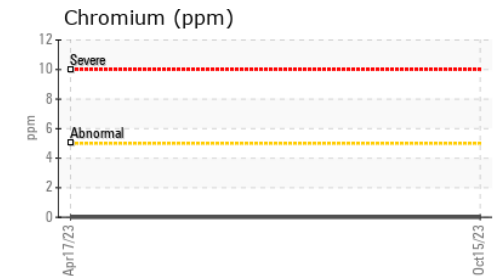
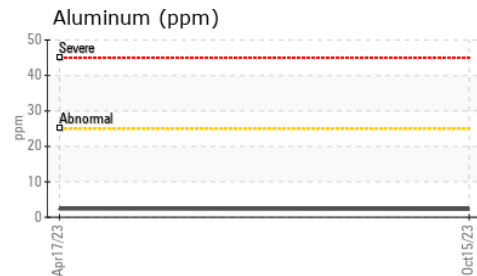
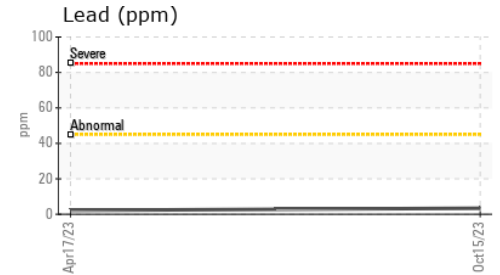
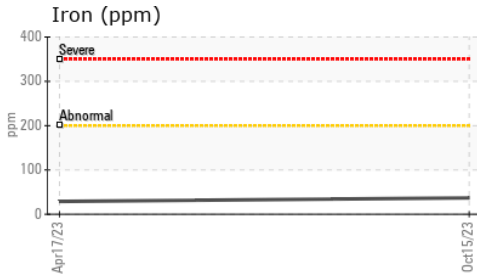
FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D7279(m)	213.9 ▲ 123	122	---

SAMPLE IMAGES

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

GRAPHS



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0835191
Lab Number : 02592174
Unique Number : 5669253
Test Package : MOB 1

Received : 26 Oct 2023
Diagnosed : 27 Oct 2023
Diagnostician : Kevin Marson

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 Kirkland Lake, ON
 CA P2N 3J1
 Contact: Tony Tees
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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.