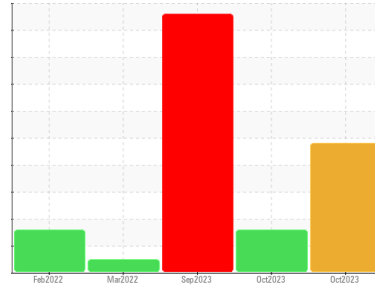




OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id
CATERPILLAR TRK218
 Component
Front Differential
 Fluid
PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

High concentration of dirt present in the oil.

Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0820203	WC0848149	WC0801051
Sample Date	Client Info		19 Oct 2023	03 Oct 2023	04 Sep 2023
Machine Age	hrs	Client Info	14511	0	14060
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	Changed
Sample Status			SEVERE	ABNORMAL	SEVERE

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >500	84	58	11
Chromium	ppm	ASTM D5185(m) >3	<1	<1	0
Nickel	ppm	ASTM D5185(m) >3	<1	<1	0
Titanium	ppm	ASTM D5185(m) >2	0	0	0
Silver	ppm	ASTM D5185(m) >2	<1	<1	2
Aluminum	ppm	ASTM D5185(m) >30	8	5	<1
Lead	ppm	ASTM D5185(m) >13	1	1	0
Copper	ppm	ASTM D5185(m) >103	45	37	<1
Tin	ppm	ASTM D5185(m) >5	1	<1	0
Antimony	ppm	ASTM D5185(m) >5	0	0	0
Vanadium	ppm	ASTM D5185(m)	0	0	0
Beryllium	ppm	ASTM D5185(m)	0	0	0
Cadmium	ppm	ASTM D5185(m)	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 2	3	5	▲ 118
Barium	ppm	ASTM D5185(m) 0	<1	<1	0
Molybdenum	ppm	ASTM D5185(m) 0	<1	<1	0
Manganese	ppm	ASTM D5185(m) 0	<1	<1	0
Magnesium	ppm	ASTM D5185(m) 9	18	16	<1
Calcium	ppm	ASTM D5185(m) 3114	4193	4217	▲ 17
Phosphorus	ppm	ASTM D5185(m) 1099	889	879	1058
Zinc	ppm	ASTM D5185(m) 1245	1023	1047	▲ 38
Sulfur	ppm	ASTM D5185(m) 7086	6619	6479	▲ 20661
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

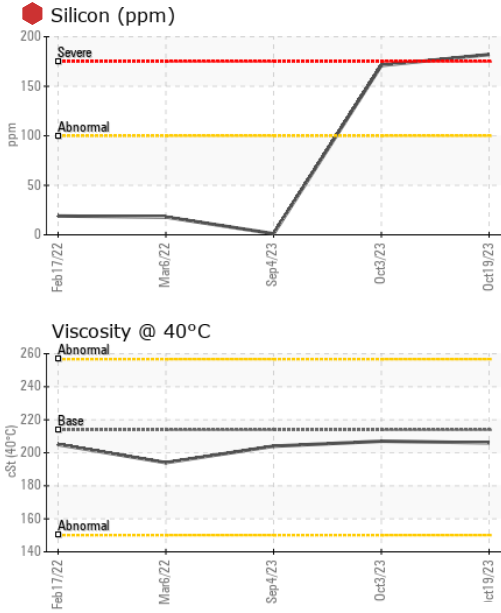
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >100	● 182	▲ 171	1
Sodium	ppm	ASTM D5185(m)	3	2	<1
Potassium	ppm	ASTM D5185(m) >20	2	1	<1

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	LIGHT	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

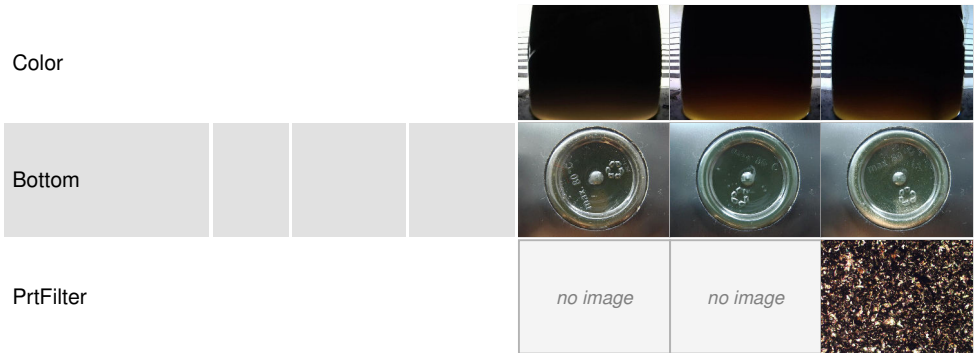


OIL ANALYSIS REPORT

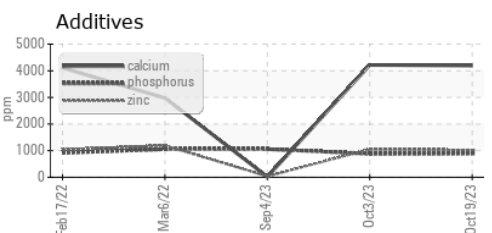
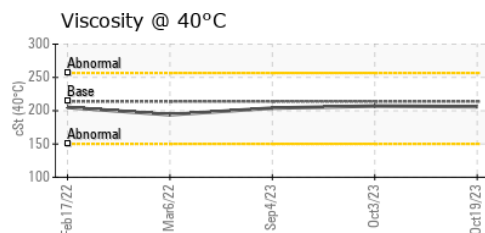
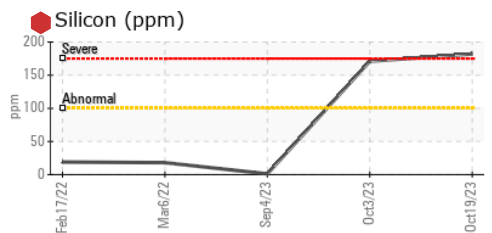
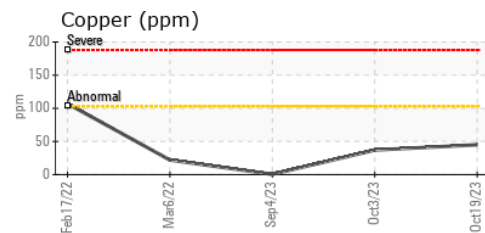
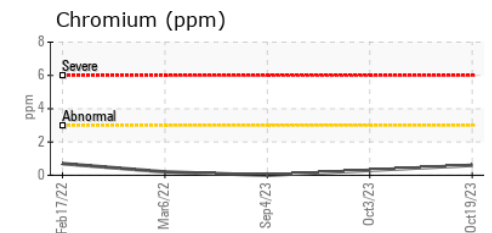
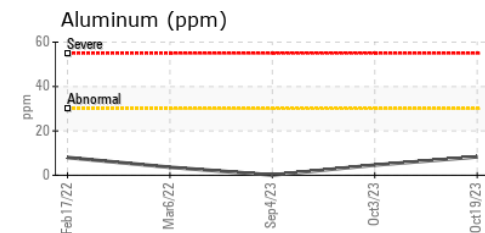
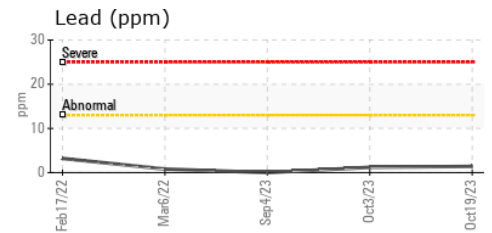
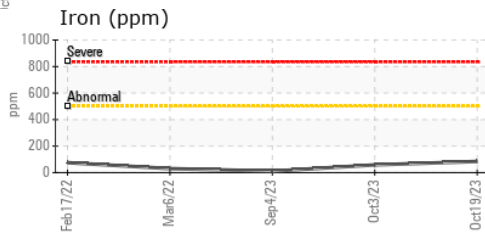


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	213.9	206	207

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0820203 **Received** : 26 Oct 2023
Lab Number : 02592260 **Diagnosed** : 27 Oct 2023
Unique Number : 5669339 **Diagnostician** : Kevin Marson
Test Package : MOB 1

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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.