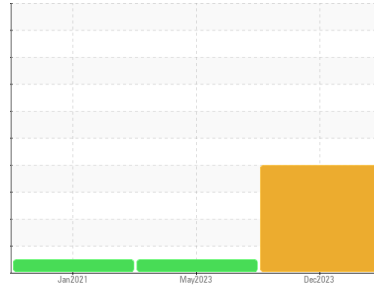




OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
CATERPILLAR R1600H SCP201

Component
Front Left Planetary

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

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a high concentration of water 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		WC0890050	WC0584384	WC0539661
Sample Date	Client Info		24 Dec 2023	02 May 2023	24 Jan 2021
Machine Age	hrs	Client Info	11727	0	4990
Oil Age	hrs	Client Info	0	0	1000
Oil Changed	Client Info		Changed	N/A	Changed
Sample Status			SEVERE	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >500	149	124	43
Chromium	ppm	ASTM D5185(m) >10	<1	<1	<1
Nickel	ppm	ASTM D5185(m) >10	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	0	<1	<1
Silver	ppm	ASTM D5185(m)	0	0	<1
Aluminum	ppm	ASTM D5185(m) >25	4	4	2
Lead	ppm	ASTM D5185(m) >25	5	2	4
Copper	ppm	ASTM D5185(m) >75	70	65	113
Tin	ppm	ASTM D5185(m) >10	1	1	2
Antimony	ppm	ASTM D5185(m) >5	0	<1	0
Vanadium	ppm	ASTM D5185(m)	0	0	<1
Beryllium	ppm	ASTM D5185(m)	0	0	0
Cadmium	ppm	ASTM D5185(m)	0	0	0

ADDITIVES

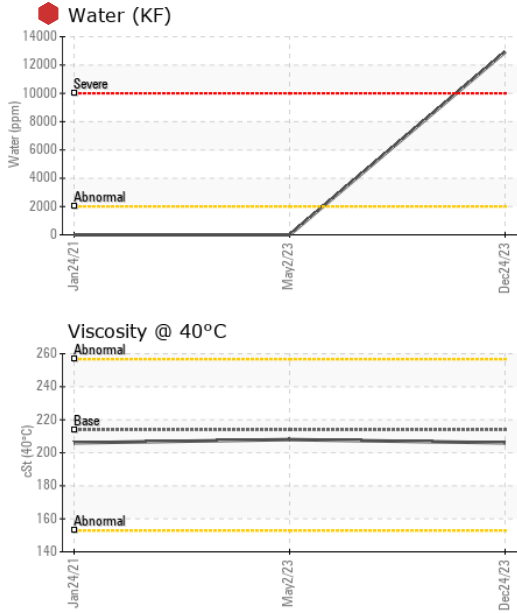
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 2	4	2	3
Barium	ppm	ASTM D5185(m) 0	0	0	<1
Molybdenum	ppm	ASTM D5185(m) 0	<1	<1	1
Manganese	ppm	ASTM D5185(m) 0	1	1	<1
Magnesium	ppm	ASTM D5185(m) 9	18	12	12
Calcium	ppm	ASTM D5185(m) 3114	3650	3535	3803
Phosphorus	ppm	ASTM D5185(m) 1099	928	949	893
Zinc	ppm	ASTM D5185(m) 1245	1065	1047	1088
Sulfur	ppm	ASTM D5185(m) 7086	8751	10261	7820
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >75	22	22	9
Sodium	ppm	ASTM D5185(m)	9	2	<1
Potassium	ppm	ASTM D5185(m) >20	10	<1	<1
Water	%	ASTM D6304* >0.2	1.292	---	---
ppm Water	ppm	ASTM D6304* >2000	12923	---	---



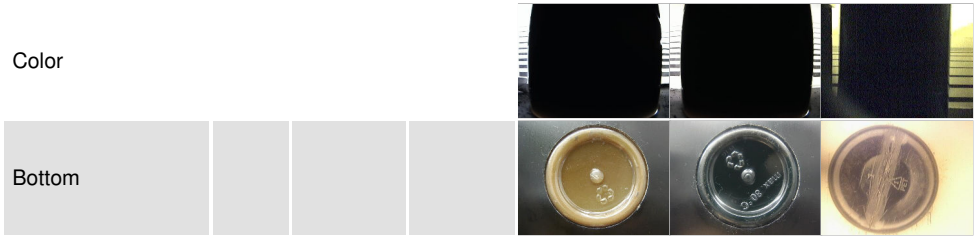
OIL ANALYSIS REPORT



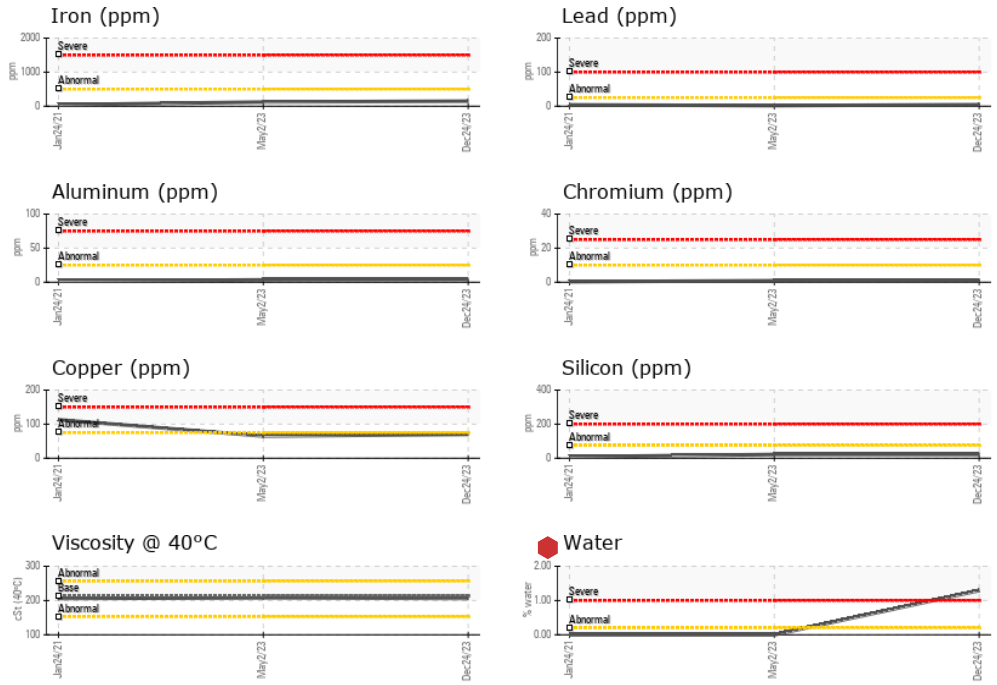
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	VLITE	NONE
Appearance	scalar	Visual*	NORML	▲ MILKY	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	▲ .5%	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	213.9	206	208	206

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. : WC0890050 **Received** : 11 Jan 2024
Lab Number : 02608283 **Diagnosed** : 15 Jan 2024
Unique Number : 5709369 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: KF)

Agnico Eagle Canada
 1350 Government Rd. W, MACASSA COMPLEX
 Kirkland Lake, ON
 CA P2N 3J1
 Contact: Jay Gould
 MacassaMobileUGPlanning@agnicoeagle.com
 T: (705)567-5208
 F: (705)567-5221

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.