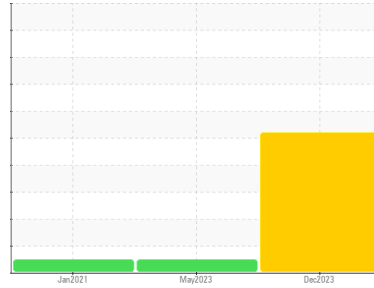




OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
CATERPILLAR R1600H SCP201

Component
Front Right Planetary

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

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. 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 white residue present in the sample is oil additive precipitate. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0890053	WC0654916	WC0539660
Sample Date	Client Info		24 Dec 2023	02 May 2023	23 Jan 2021
Machine Age	hrs	Client Info	11727	0	4990
Oil Age	hrs	Client Info	0	0	1000
Oil Changed	Client Info		N/A	N/A	Changed
Sample Status			SEVERE	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >500	122	16	41
Chromium	ppm	ASTM D5185(m) >10	<1	0	<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	2	2
Lead	ppm	ASTM D5185(m) >25	2	<1	5
Copper	ppm	ASTM D5185(m) >75	58	7	113
Tin	ppm	ASTM D5185(m) >10	<1	0	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

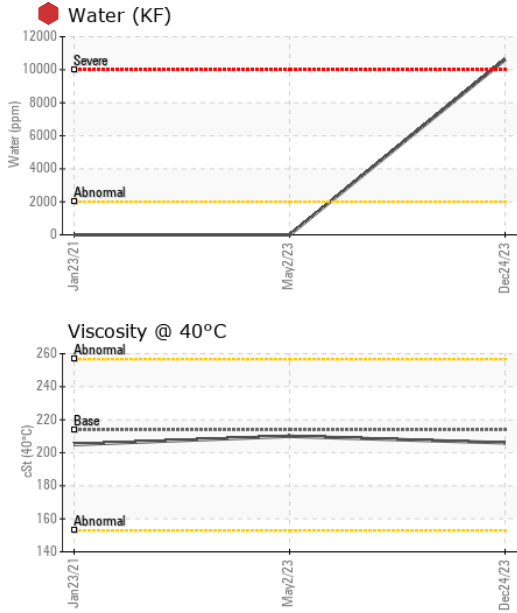
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 2	5	2	4
Barium	ppm	ASTM D5185(m) 0	0	0	<1
Molybdenum	ppm	ASTM D5185(m) 0	<1	1	1
Manganese	ppm	ASTM D5185(m) 0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m) 9	16	14	12
Calcium	ppm	ASTM D5185(m) 3114	3578	3752	3868
Phosphorus	ppm	ASTM D5185(m) 1099	920	931	883
Zinc	ppm	ASTM D5185(m) 1245	1062	1036	1090
Sulfur	ppm	ASTM D5185(m) 7086	9343	9640	7937
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >75	21	18	8
Sodium	ppm	ASTM D5185(m)	7	<1	1
Potassium	ppm	ASTM D5185(m) >20	6	0	3
Water	%	ASTM D6304* >0.2	1.060	---	---
ppm Water	ppm	ASTM D6304* >2000	10608	---	---



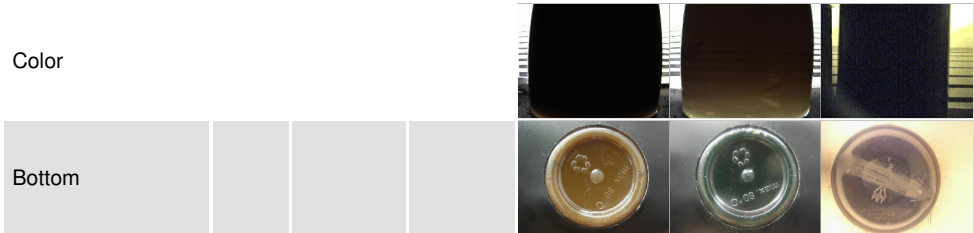
OIL ANALYSIS REPORT



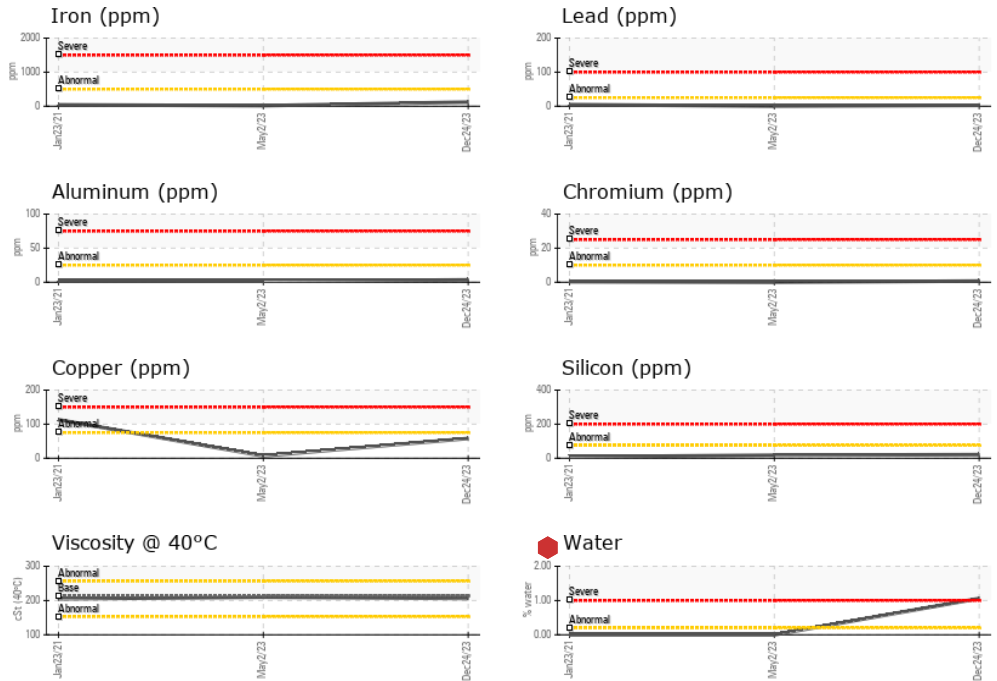
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	▲ LIGHT	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	▲ MILKY	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	▲ .2%	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	210

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. : WC0890053
Lab Number : 02608280
Unique Number : 5709366
Test Package : MOB 1 (Additional Tests: Bottom, KF)

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 Kirkland Lake, ON
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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.