



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>SEVERE</b>
FLUID CONDITION	<b>ABNORMAL</b>

Machine Id  
**CATERPILLAR R1600H SCP201**  
 Component  
**Front Right Planetary**  
 Fluid  
**PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)**

## 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0890053</b>	WC0654916	WC0539660
Sample Date		Client Info		<b>24 Dec 2023</b>	02 May 2023	23 Jan 2021
Machine Age	hrs	Client Info		<b>11727</b>	0	4990
Oil Age	hrs	Client Info		<b>0</b>	0	1000
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Changed
Sample Status				<b>SEVERE</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>500	<b>122</b>	16	41
Chromium	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	<b>4</b>	2	2
Lead	ppm	ASTM D5185(m)	>25	<b>2</b>	<1	5
Copper	ppm	ASTM D5185(m)	>75	<b>58</b>	7	113
Tin	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	0	2
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
White Metal	scalar	Visual*	NONE	<b>NONE</b>	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

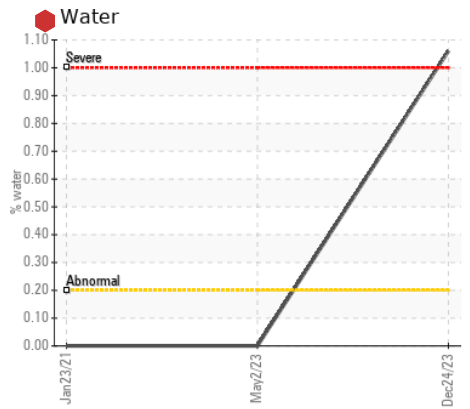
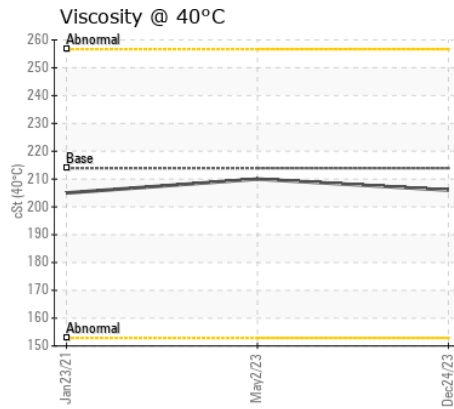
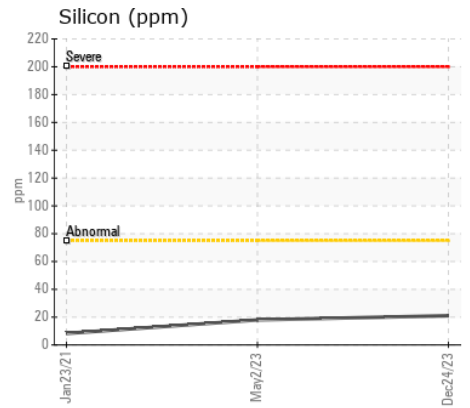
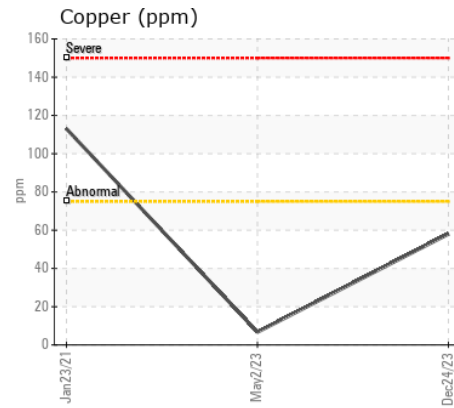
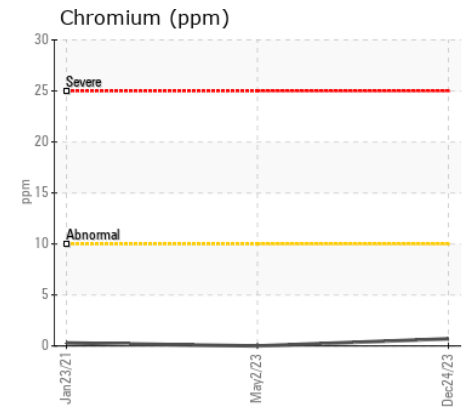
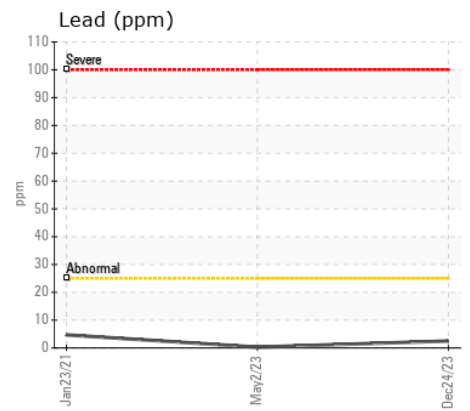
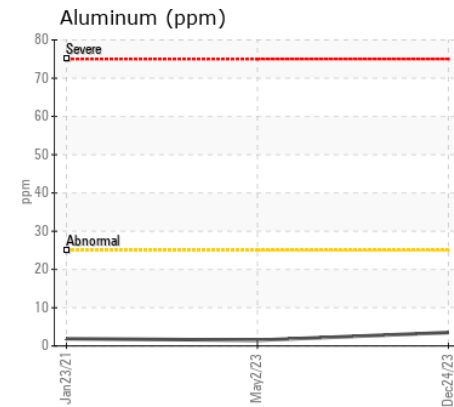
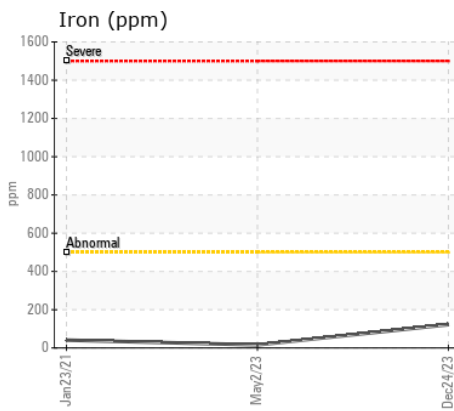
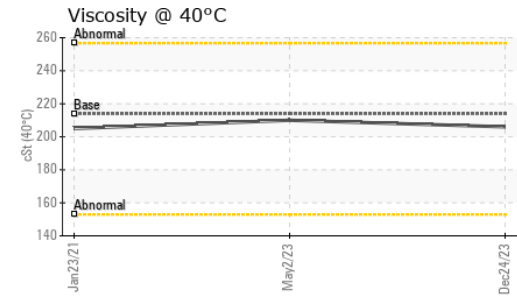
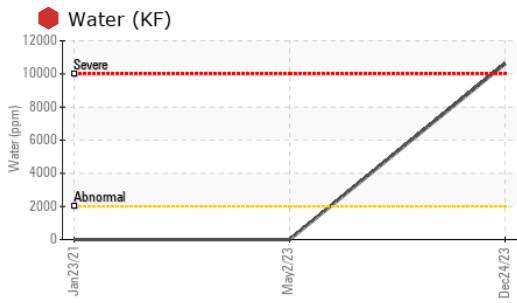
There is a high concentration of water present in the oil.

Silicon	ppm	ASTM D5185(m)	>75	<b>21</b>	18	8
Potassium	ppm	ASTM D5185(m)	>20	<b>6</b>	0	3
Water	%	ASTM D6304*	>0.2	<b>1.060</b>	---	---
ppm Water	ppm	ASTM D6304*	>2000	<b>10608</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>VLITE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>MILKY</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	<b>.2%</b>	NEG	NEG

## 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.

Sodium	ppm	ASTM D5185(m)		<b>7</b>	<1	1
Boron	ppm	ASTM D5185(m)	2	<b>5</b>	2	4
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	1	1
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	9	<b>16</b>	14	12
Calcium	ppm	ASTM D5185(m)	3114	<b>3578</b>	3752	3868
Phosphorus	ppm	ASTM D5185(m)	1099	<b>920</b>	931	883
Zinc	ppm	ASTM D5185(m)	1245	<b>1062</b>	1036	1090
Sulfur	ppm	ASTM D5185(m)	7086	<b>9343</b>	9640	7937
Visc @ 40°C	cSt	ASTM D7279(m)	213.9	<b>206</b>	210	205



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0890053 **Received** : 11 Jan 2024  
**Lab Number** : 02608280 **Diagnosed** : 15 Jan 2024  
**Unique Number** : 5709366 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: Bottom, KF )

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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.