



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



Machine Id  
**CATERPILLAR 202-2040**  
Component  
**Right Final Drive**  
Fluid  
**GEAR OIL ISO 220 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

**WEAR**

All component wear rates are normal.

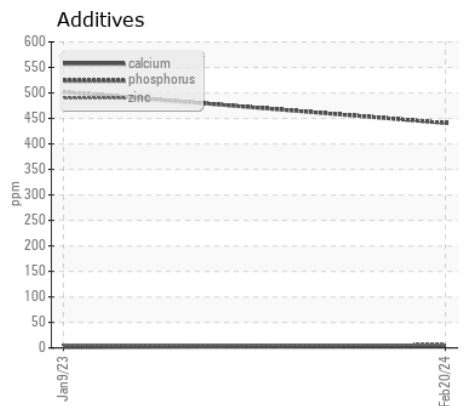
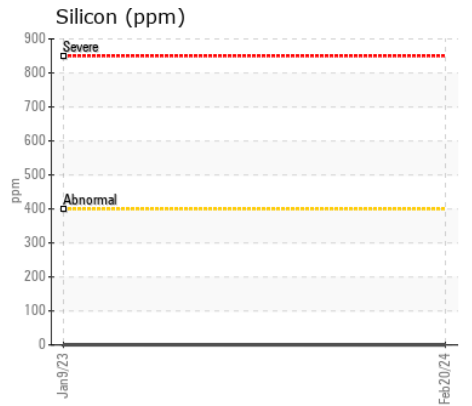
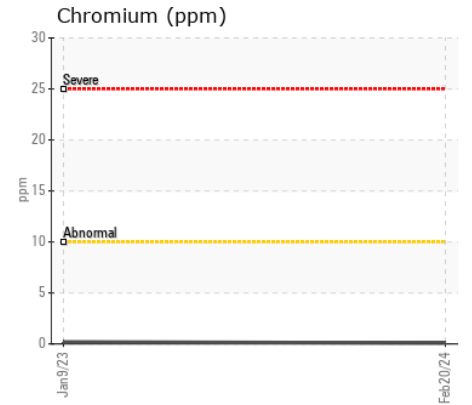
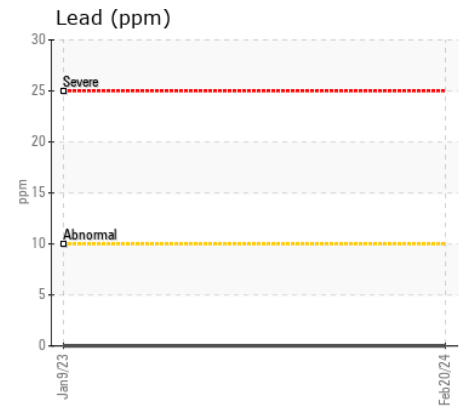
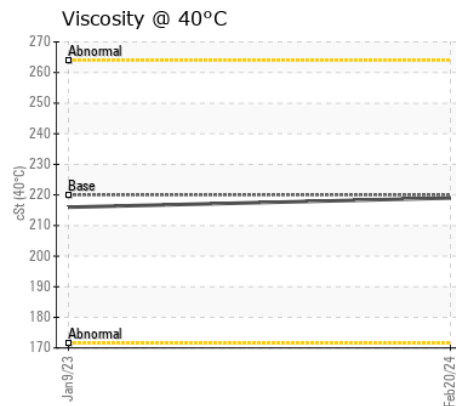
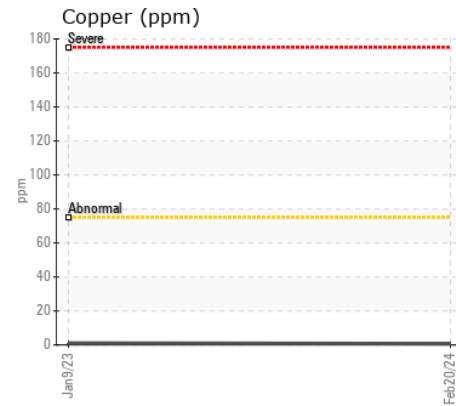
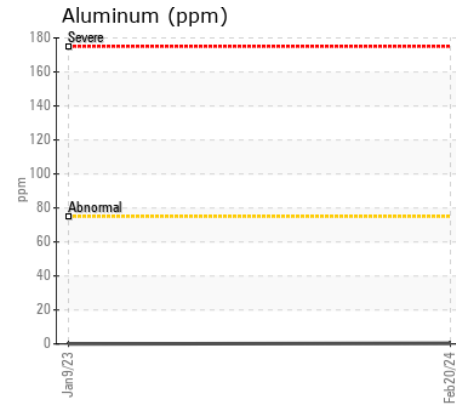
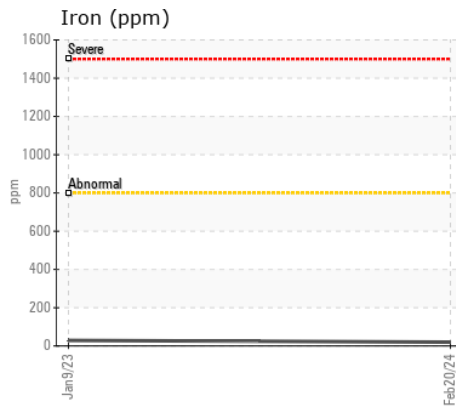
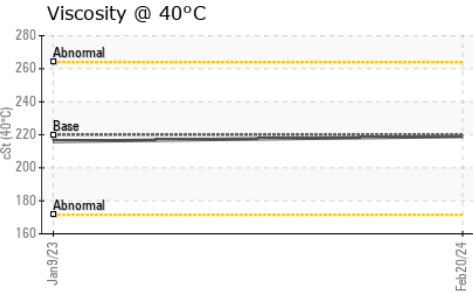
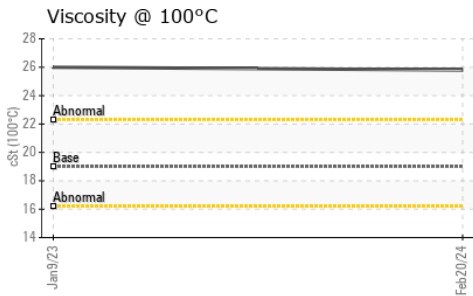
**CONTAMINATION**

There is no indication of any contamination in the oil.

**FLUID CONDITION**

The viscosity of the oil is higher than normal, possibly indicating the addition of a heavier grade of oil. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0084918</b>	PC0071040	---
Sample Date		Client Info		<b>20 Feb 2024</b>	09 Jan 2023	---
Machine Age	hrs	Client Info		<b>2386</b>	1876	---
Oil Age	hrs	Client Info		<b>510</b>	612	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>N/A</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---
Iron	ppm	ASTM D5185(m)	>800	<b>20</b>	29	---
Chromium	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185(m)	>15	<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>75	<b>&lt;1</b>	0	---
Lead	ppm	ASTM D5185(m)	>10	<b>0</b>	0	---
Copper	ppm	ASTM D5185(m)	>75	<b>&lt;1</b>	1	---
Tin	ppm	ASTM D5185(m)	>8	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Silicon	ppm	ASTM D5185(m)	>400	<b>&lt;1</b>	<1	---
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	---
Sodium	ppm	ASTM D5185(m)		<b>2</b>	2	---
Boron	ppm	ASTM D5185(m)	50	<b>28</b>	30	---
Barium	ppm	ASTM D5185(m)	15	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	15	<b>0</b>	0	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185(m)	50	<b>2</b>	<1	---
Calcium	ppm	ASTM D5185(m)	50	<b>5</b>	2	---
Phosphorus	ppm	ASTM D5185(m)	350	<b>441</b>	502	---
Zinc	ppm	ASTM D5185(m)	100	<b>6</b>	5	---
Sulfur	ppm	ASTM D5185(m)	12500	<b>5515</b>	6053	---
Visc @ 40°C	cSt	ASTM D7279(m)	220	<b>219</b>	216	---
Visc @ 100°C	cSt	ASTM D7279(m)	19.0	<b>25.8</b>	26.0	---
Viscosity Index (VI)	Scale	ASTM D2270*	96	<b>149</b>	153	---



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0084918 **Received** : 04 Mar 2024  
**Lab Number** : 02619636 **Tested** : 04 Mar 2024  
**Unique Number** : 5736746 **Diagnosed** : 04 Mar 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: KV100, VI )

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.

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