



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
CATERPILLAR CB64B 2161601
Component
Front Final Drive
Fluid
GEAR OIL FG ISO 220 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0084968	PC0043258	---
Sample Date		Client Info		29 Feb 2024	12 Jan 2021	---
Machine Age	hrs	Client Info		3667	2153	---
Oil Age	hrs	Client Info		500	512	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ATTENTION	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>800	37	40	---
Chromium	ppm	ASTM D5185(m)	>10	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>5	<1	0	---
Titanium	ppm	ASTM D5185(m)	>15	0	0	---
Silver	ppm	ASTM D5185(m)	>2	0	<1	---
Aluminum	ppm	ASTM D5185(m)	>75	<1	<1	---
Lead	ppm	ASTM D5185(m)	>10	8	29	---
Copper	ppm	ASTM D5185(m)	>75	2	2	---
Tin	ppm	ASTM D5185(m)	>8	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	VLITE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

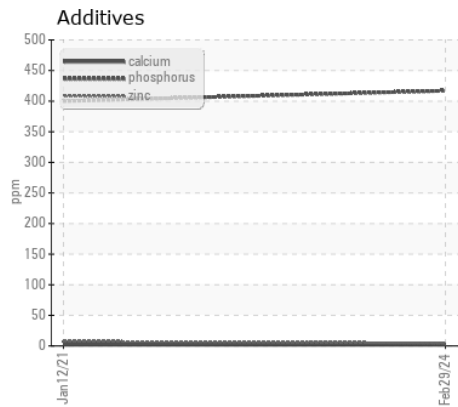
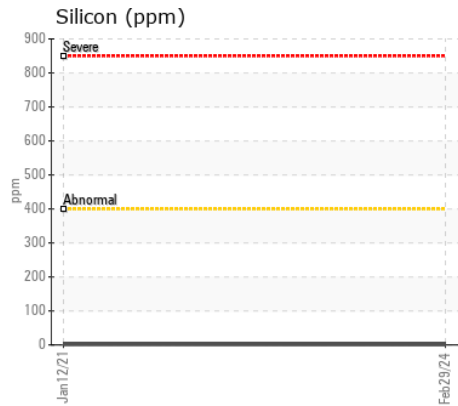
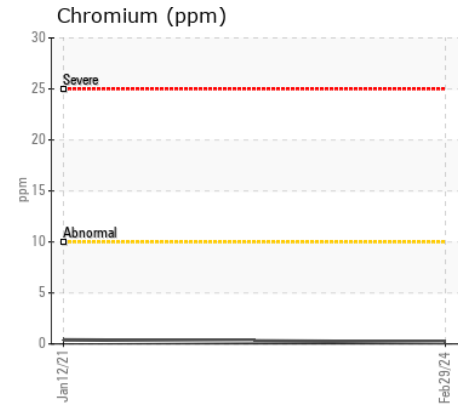
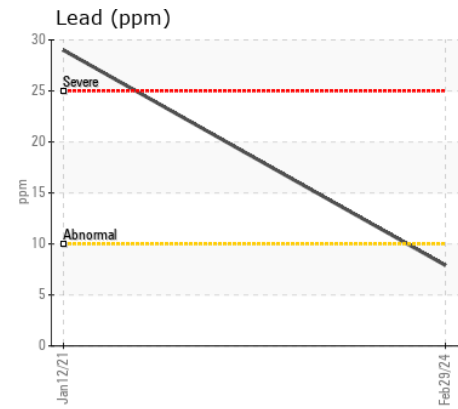
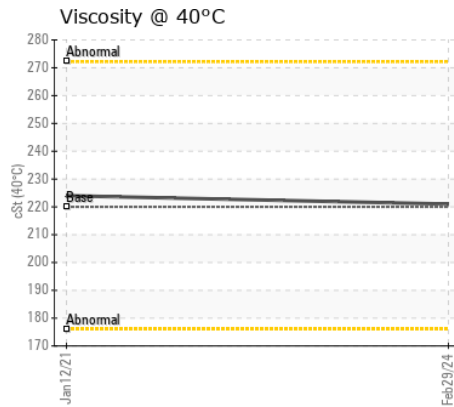
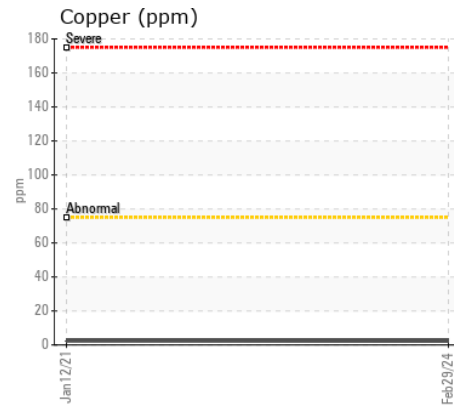
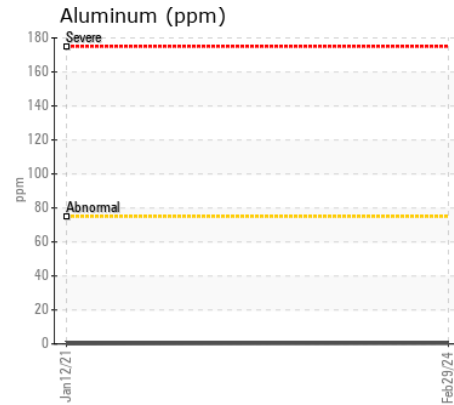
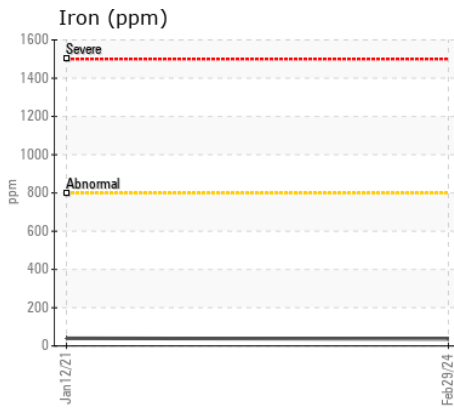
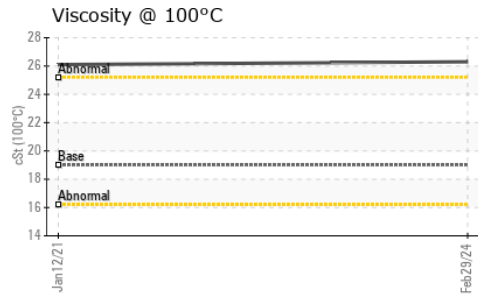
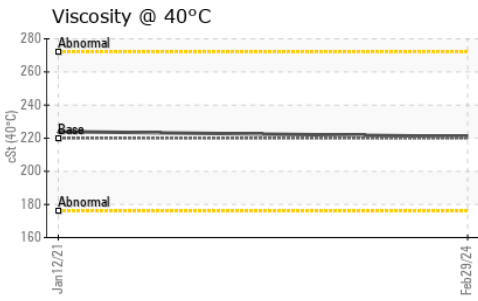
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>400	1	2	---
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	Visual*	NONE	NONE	LIGHT	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	VLITE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<1	<1	---
Boron	ppm	ASTM D5185(m)	5	20	21	---
Barium	ppm	ASTM D5185(m)	5	0	<1	---
Molybdenum	ppm	ASTM D5185(m)	5	0	0	---
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)	5	1	<1	---
Calcium	ppm	ASTM D5185(m)	12	3	3	---
Phosphorus	ppm	ASTM D5185(m)	400	417	400	---
Zinc	ppm	ASTM D5185(m)	12	5	8	---
Sulfur	ppm	ASTM D5185(m)	750	5051	5185	---
Visc @ 40°C	cSt	ASTM D7279(m)	220	221	224	---
Visc @ 100°C	cSt	ASTM D7279(m)	19.0	26.3	26.1	---
Viscosity Index (VI)	Scale	ASTM D2270*	96	152	148	---



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0084968 **Received** : 04 Mar 2024
Lab Number : 02619666 **Tested** : 04 Mar 2024
Unique Number : 5736776 **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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