

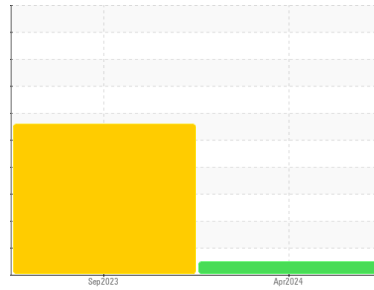


# OIL ANALYSIS REPORT



Machine Id  
**CATERPILLAR 320B EXC01**  
 Component  
**Left Planetary**  
 Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**

### Sample Rating Trend



**NORMAL**



### DIAGNOSIS

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

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0920170</b>	WC0835172	---
Sample Date	Client Info		<b>07 Apr 2024</b>	02 Sep 2023	---
Machine Age	hrs	Client Info	<b>19178</b>	18936	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>Not Changed</b>	Changed	---
Sample Status			<b>NORMAL</b>	SEVERE	---

### CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	NEG	---

### WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>500	<b>33</b>	198	---
Chromium	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	2	---
Nickel	ppm	ASTM D5185(m)	>10	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185(m)		<b>&lt;1</b>	2	---
Silver	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185(m)	>25	<b>&lt;1</b>	43	---
Lead	ppm	ASTM D5185(m)	>25	<b>0</b>	<1	---
Copper	ppm	ASTM D5185(m)	>75	<b>&lt;1</b>	1	---
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	---
Antimony	ppm	ASTM D5185(m)	>5	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	---

### ADDITIVES

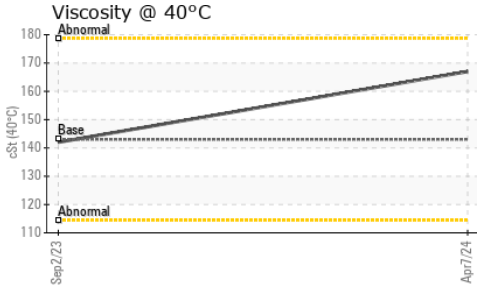
	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	400	<b>186</b>	147	---
Barium	ppm	ASTM D5185(m)	200	<b>1</b>	1	---
Molybdenum	ppm	ASTM D5185(m)	12	<b>0</b>	<1	---
Manganese	ppm	ASTM D5185(m)		<b>2</b>	2	---
Magnesium	ppm	ASTM D5185(m)	12	<b>6</b>	24	---
Calcium	ppm	ASTM D5185(m)	150	<b>209</b>	44	---
Phosphorus	ppm	ASTM D5185(m)	1650	<b>1349</b>	1091	---
Zinc	ppm	ASTM D5185(m)	125	<b>81</b>	28	---
Sulfur	ppm	ASTM D5185(m)	22500	<b>19465</b>	18499	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---

### CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>75	<b>88</b>	▲ 166	---
Sodium	ppm	ASTM D5185(m)	>170	<b>4</b>	15	---
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	19	---



# OIL ANALYSIS REPORT



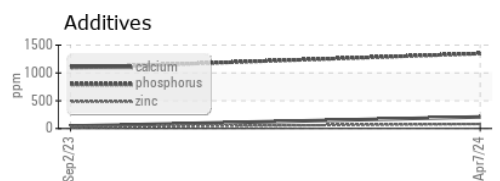
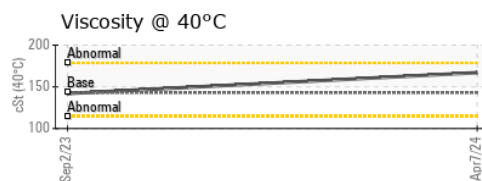
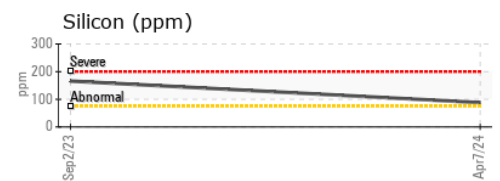
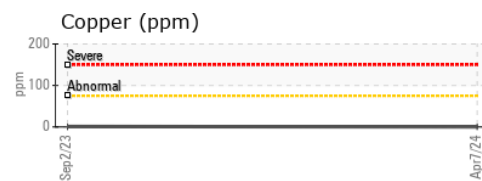
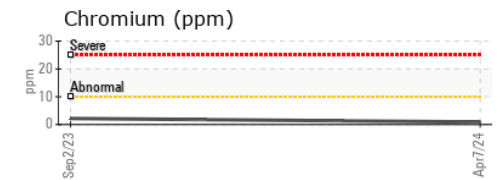
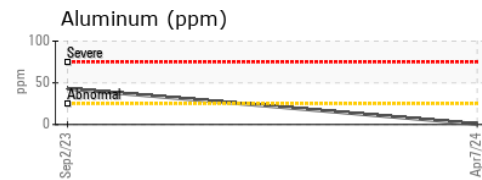
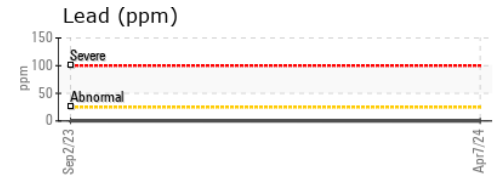
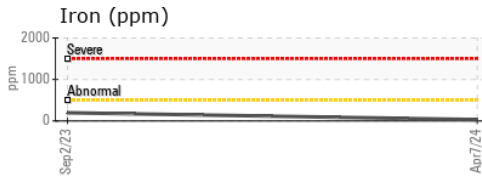
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	VLITE	---
Debris	scalar	Visual*	NONE	VLITE	---
Sand/Dirt	scalar	Visual*	NONE	VLITE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	NEG ▲ .2%	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	143	<b>167</b>	142	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color					no image
Bottom					no image

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0920170  
**Lab Number** : 02628559  
**Unique Number** : 5761691  
**Test Package** : MOB 1

**Agnico Eagle Canada**  
 1350 Government Rd. W, MACASSA COMPLEX  
 Kirkland Lake, ON  
 CA P2N 3J1  
 Contact: Mitch Lamontagne  
 AEM\_KL\_macassaoilssampleresults@agnicoeagle.com

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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