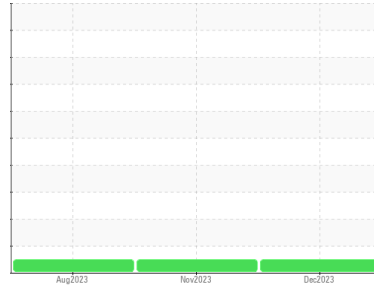




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**EPIROC ST18 SCP202**

Component  
**Front Differential**

Fluid  
**PENNZOIL SYNTHETIC SAE 75W140 GL-5 (--- GAL)**

## 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>WC0883819</b>	WC0879741	WC0848089
Sample Date	Client Info		<b>20 Dec 2023</b>	21 Nov 2023	31 Aug 2023
Machine Age	hrs	Client Info	<b>2862</b>	2614	1760
Oil Age	hrs	Client Info	<b>1000</b>	500	400
Oil Changed	Client Info		<b>Changed</b>	Not Changd	Not Changd
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>500	<b>262</b>	229	120
Chromium	ppm	ASTM D5185(m)	>10	<b>2</b>	2	<1
Nickel	ppm	ASTM D5185(m)	>10	<b>2</b>	2	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	<b>8</b>	6	<1
Lead	ppm	ASTM D5185(m)	>25	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185(m)	>100	<b>10</b>	8	3
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## ADDITIVES

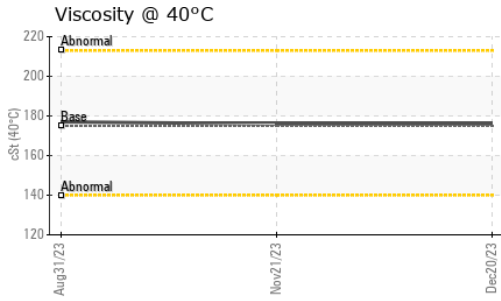
	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		<b>98</b>	101	106
Barium	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Manganese	ppm	ASTM D5185(m)		<b>2</b>	2	1
Magnesium	ppm	ASTM D5185(m)		<b>5</b>	4	1
Calcium	ppm	ASTM D5185(m)		<b>12</b>	11	5
Phosphorus	ppm	ASTM D5185(m)		<b>852</b>	885	918
Zinc	ppm	ASTM D5185(m)		<b>9</b>	8	7
Sulfur	ppm	ASTM D5185(m)		<b>18479</b>	19018	18339
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>75	<b>28</b>	26	5
Sodium	ppm	ASTM D5185(m)		<b>3</b>	4	1
Potassium	ppm	ASTM D5185(m)	>20	<b>4</b>	2	<1



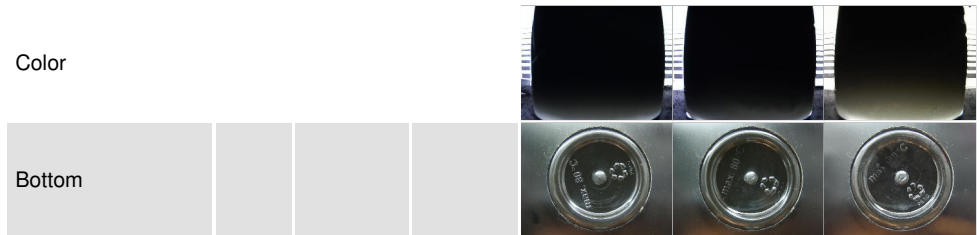
# OIL ANALYSIS REPORT



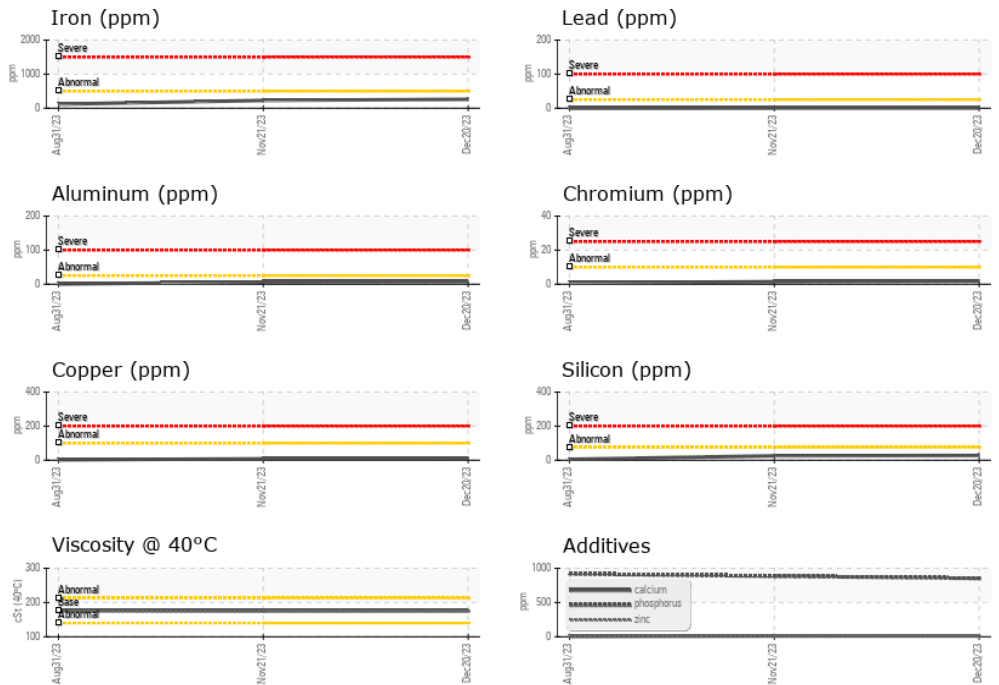
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	VLITE
Debris	scalar	Visual*	NONE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	175	<b>176</b>	176	177

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.** : WC0883819      **Received** : 27 Dec 2023  
**Lab Number** : **02605383**      **Diagnosed** : 27 Dec 2023  
**Unique Number** : 5698468      **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

**Agnico Eagle Canada**  
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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.