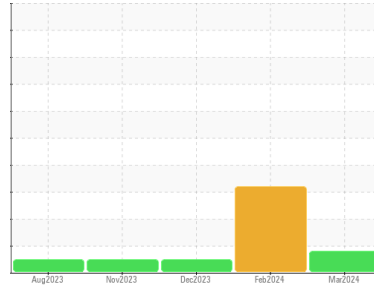




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
EPIROC ST18 SCP202

Component
Front Differential

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

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Wear

Copper ppm levels are noted. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0902352	WC0886109	WC0883819
Sample Date	Client Info		11 Mar 2024	06 Feb 2024	20 Dec 2023
Machine Age	hrs	Client Info	1077	0	2862
Oil Age	hrs	Client Info	1077	0	1000
Oil Changed	Client Info		Changed	Not Changd	Changed
Sample Status			ATTENTION	ABNORMAL	NORMAL

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>500	26	▲ 501	262
Chromium	ppm	ASTM D5185(m)	>10	<1	4	2
Nickel	ppm	ASTM D5185(m)	>10	<1	3	2
Titanium	ppm	ASTM D5185(m)		0	1	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	2	● 33	8
Lead	ppm	ASTM D5185(m)	>25	12	<1	<1
Copper	ppm	ASTM D5185(m)	>100	● 157	32	10
Tin	ppm	ASTM D5185(m)	>10	3	<1	0
Antimony	ppm	ASTM D5185(m)	>5	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0

ADDITIVES

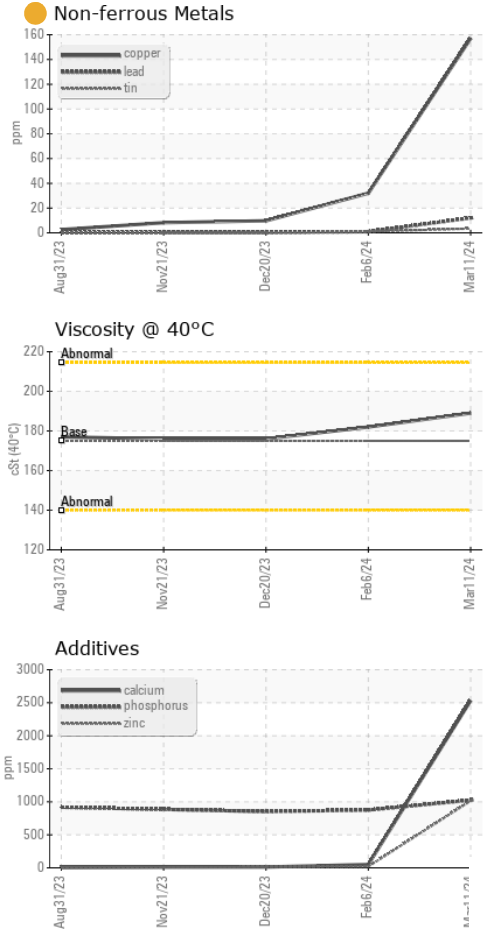
	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		13	76	98
Barium	ppm	ASTM D5185(m)		5	<1	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		<1	5	2
Magnesium	ppm	ASTM D5185(m)		8	19	5
Calcium	ppm	ASTM D5185(m)		2532	50	12
Phosphorus	ppm	ASTM D5185(m)		1024	874	852
Zinc	ppm	ASTM D5185(m)		1015	20	9
Sulfur	ppm	ASTM D5185(m)		10335	18848	18479
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>75	4	▲ 117	28
Sodium	ppm	ASTM D5185(m)		4	10	3
Potassium	ppm	ASTM D5185(m)	>20	1	10	4



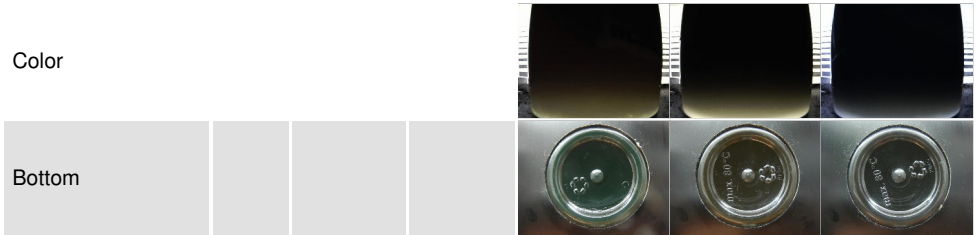
OIL ANALYSIS REPORT



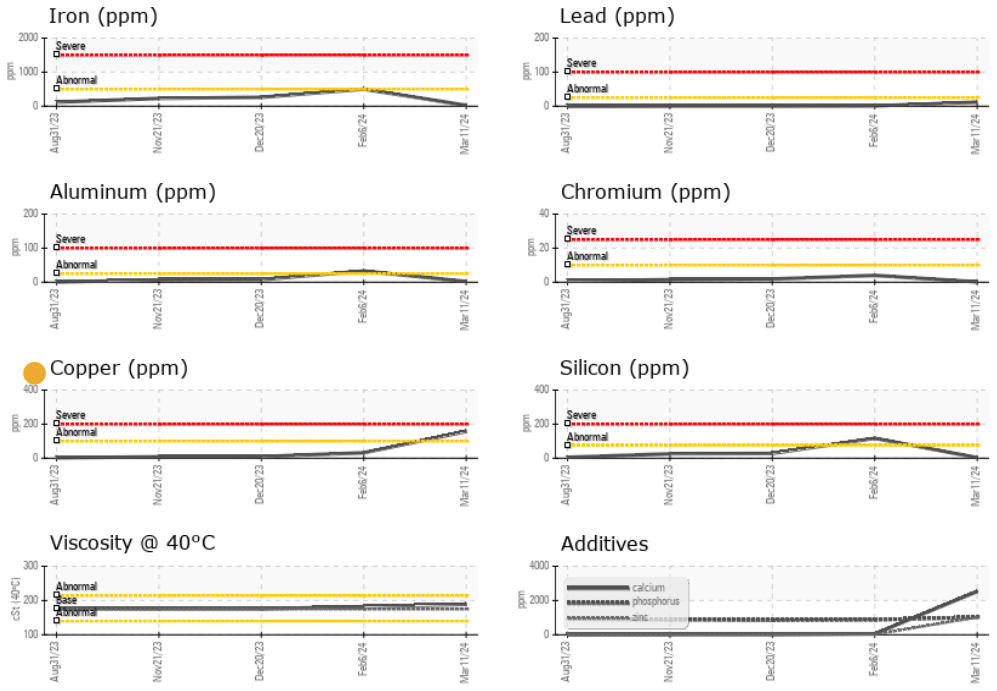
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	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	189	182

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. : WC0902352
Lab Number : 02622774
Unique Number : 5747893
Test Package : MOB 1

Agnico Eagle Canada
 1350 Government Rd. W, MACASSA COMPLEX
 Kirkland Lake, ON
 CA P2N 3J1
 Contact: Mitch Lamontagne

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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