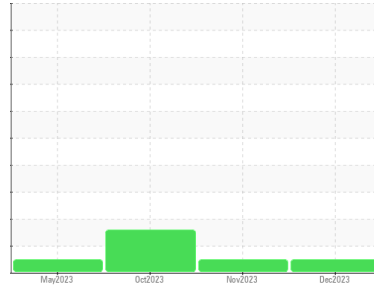




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
MINECAT MC1006 FMC034 (S/N 100015152)

Component
Diesel Engine

Fluid
MOBIL 15W40 (--- 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			WC0890049	WC	WC0865543
Sample Date	Client Info			23 Dec 2023	30 Nov 2023	26 Oct 2023
Machine Age	hrs	Client Info		6436	0	6119
Oil Age	hrs	Client Info		0	0	0
Oil Changed	Client Info			Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<1.0	<1.0	<1.0
Water	WC Method	>0.2		NEG	NEG	NEG
Glycol	WC Method			NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	8	6	38
Chromium	ppm	ASTM D5185(m)	>20	0	0	2
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	4	1	6
Lead	ppm	ASTM D5185(m)	>40	2	0	<1
Copper	ppm	ASTM D5185(m)	>330	14	<1	2
Tin	ppm	ASTM D5185(m)	>15	<1	0	<1
Antimony	ppm	ASTM D5185(m)		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

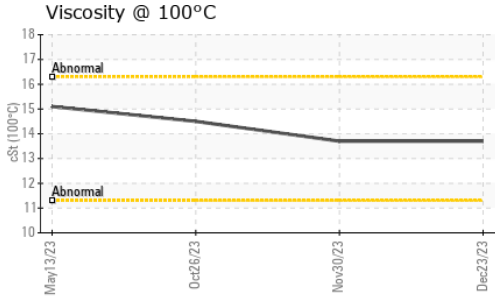
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		66	45	31
Barium	ppm	ASTM D5185(m)		3	<1	<1
Molybdenum	ppm	ASTM D5185(m)		36	42	63
Manganese	ppm	ASTM D5185(m)		9	0	<1
Magnesium	ppm	ASTM D5185(m)		346	557	648
Calcium	ppm	ASTM D5185(m)		2033	1619	1617
Phosphorus	ppm	ASTM D5185(m)		743	789	817
Zinc	ppm	ASTM D5185(m)		830	920	1000
Sulfur	ppm	ASTM D5185(m)		2304	2184	2139
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	21	10	▲ 58
Sodium	ppm	ASTM D5185(m)	>118	4	4	9
Potassium	ppm	ASTM D5185(m)	>20	0	<1	2

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0.1	0.9
Nitration	Abs/cm	ASTM D7624*	>20	4.6	6.2	11.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.8	21.9	25.2



OIL ANALYSIS REPORT

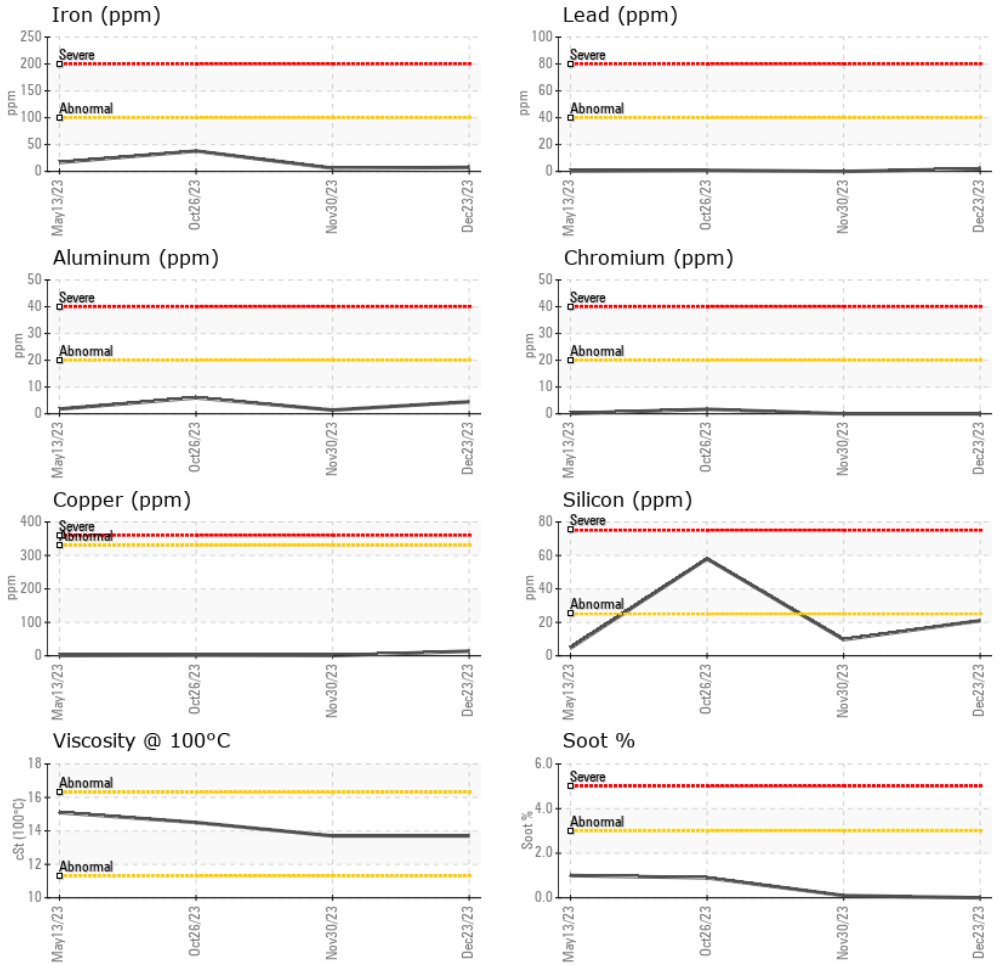


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	16.3	19.9	25.3

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	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	13.7	13.7	14.5

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0890049 **Received** : 04 Jan 2024
Lab Number : **02606500** **Diagnosed** : 04 Jan 2024
Unique Number : 5707586 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: Visual)

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 Kirkland Lake, ON
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 tony.tees@agnicoeagle.com
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 F: (705)567-5221

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.