



POWER SYSTEMS
SYSTÈMES DE PUISSANCE

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
HALIFAX WATER [256895]
Machine Id
CATERPILLAR EG500573
Component
Diesel Engine
Fluid
PETRO CANADA 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WA0021153	WA0018994	WA0016779
Sample Date		Client Info		22 Feb 2024	09 May 2023	05 Apr 2022
Machine Age	hrs	Client Info		158	143	115
Oil Age	hrs	Client Info		16	30	0
Filter Age	hrs	Client Info		16	30	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	4	8	19
Chromium	ppm	ASTM D5185(m)	>20	0	0	<1
Nickel	ppm	ASTM D5185(m)	>2	0	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	1	1	2
Lead	ppm	ASTM D5185(m)	>40	<1	<1	3
Copper	ppm	ASTM D5185(m)	>330	8	28	91
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

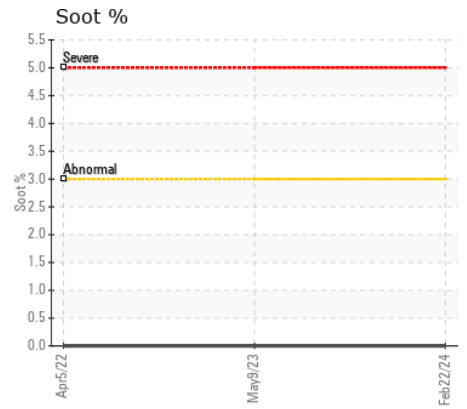
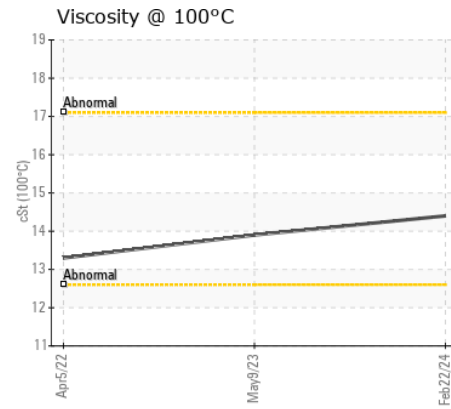
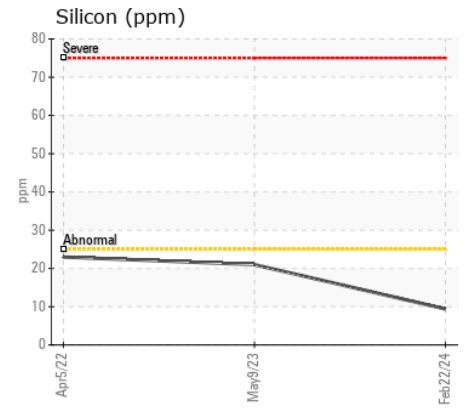
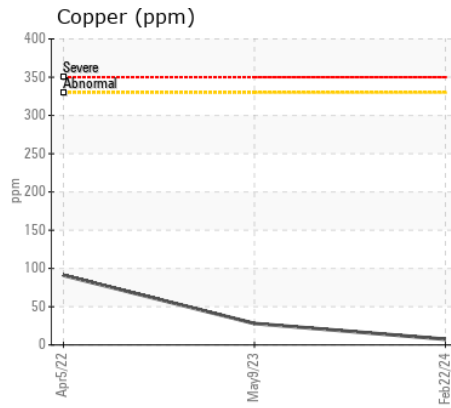
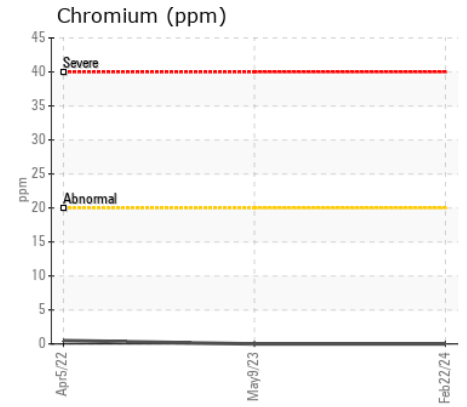
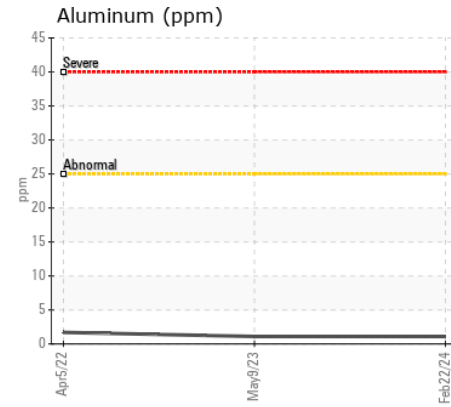
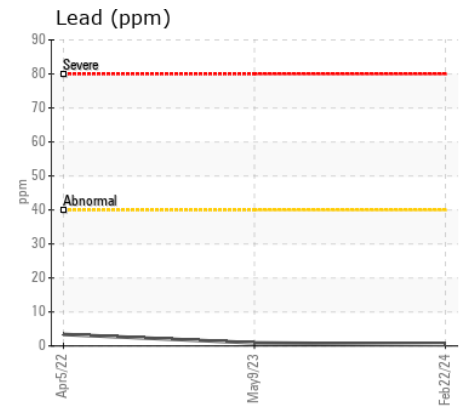
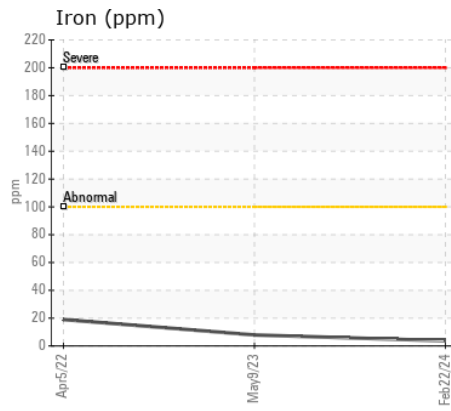
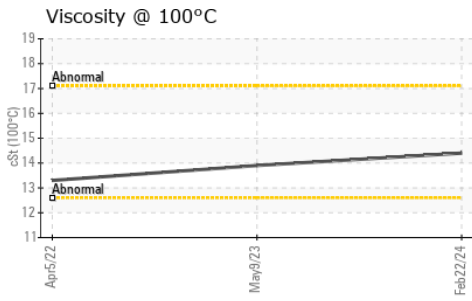
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	9	21	23
Potassium	ppm	ASTM D5185(m)	>20	<1	3	2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	4.6	5.1	5.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.7	18.9	17.8
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	VLITE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		3	2	4
Boron	ppm	ASTM D5185(m)		24	96	52
Barium	ppm	ASTM D5185(m)		<1	2	6
Molybdenum	ppm	ASTM D5185(m)		50	28	38
Manganese	ppm	ASTM D5185(m)		0	2	5
Magnesium	ppm	ASTM D5185(m)		843	535	946
Calcium	ppm	ASTM D5185(m)		1206	1874	1811
Phosphorus	ppm	ASTM D5185(m)		1011	1110	1209
Zinc	ppm	ASTM D5185(m)		1153	1193	1326
Sulfur	ppm	ASTM D5185(m)		2896	3300	3992
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.0	13.5	10.7
Visc @ 100°C	cSt	ASTM D7279(m)		14.4	13.9	13.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0021153 **Received** : 28 Feb 2024
Lab Number : 02618569 **Tested** : 28 Feb 2024
Unique Number : 5735679 **Diagnosed** : 28 Feb 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Visual)

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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.