



POWER SYSTEMS
SYSTÈMES DE PUISSANCE

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
HALIFAX WATER [256872]
Machine Id
CATERPILLAR E5A00562
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		WA0021151	WA0019158	WA0017527
Sample Date		Client Info		26 Feb 2024	28 Mar 2023	15 Mar 2022
Machine Age	hrs	Client Info		283	274	224
Oil Age	hrs	Client Info		10	40	0
Filter Age	hrs	Client Info		10	40	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	2	7	8
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	0	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	1	1	<1
Lead	ppm	ASTM D5185(m)	>40	<1	<1	3
Copper	ppm	ASTM D5185(m)	>330	6	26	90
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

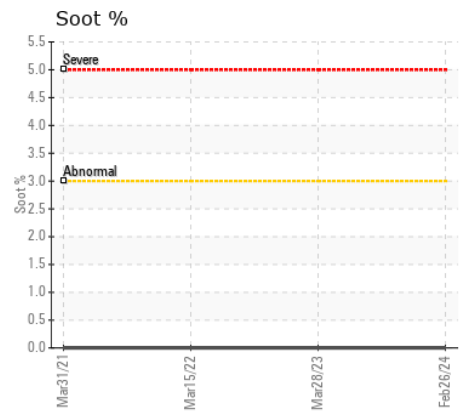
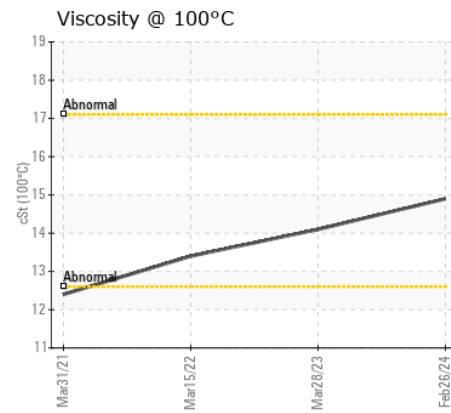
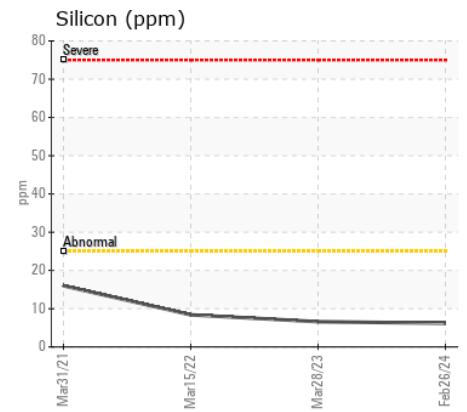
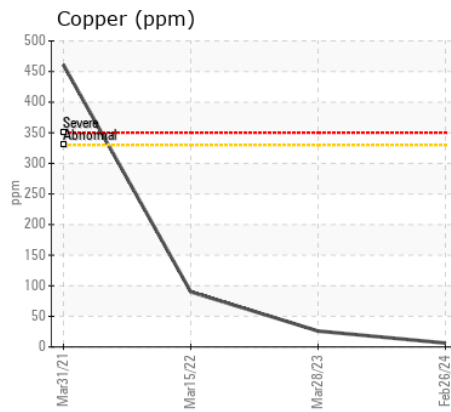
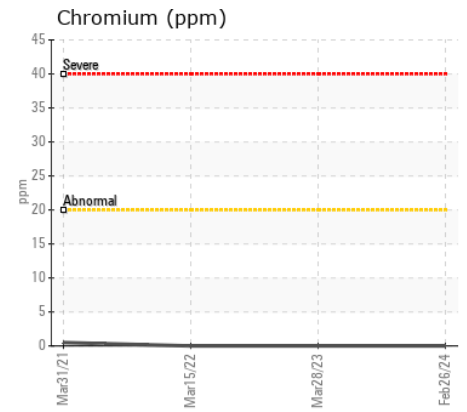
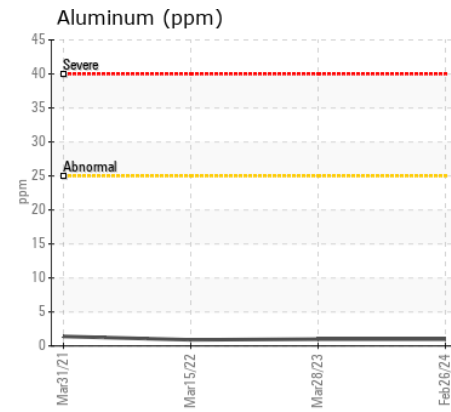
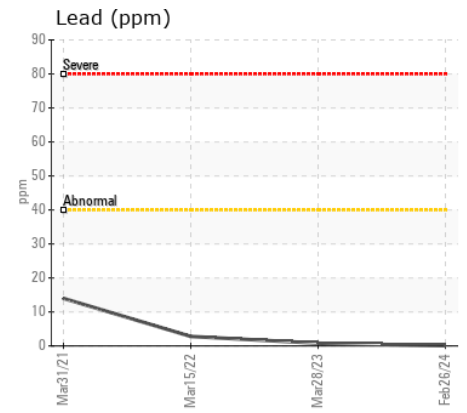
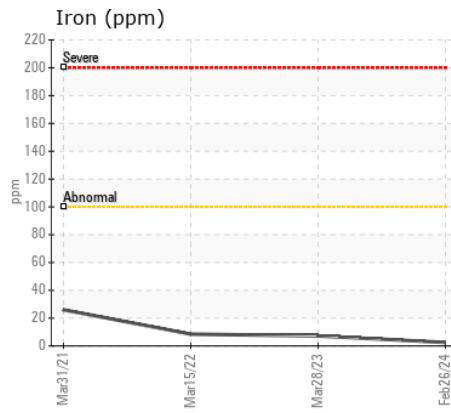
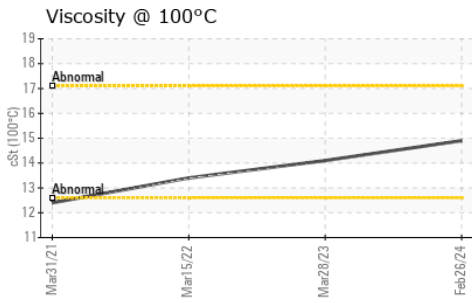
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	7	8
Potassium	ppm	ASTM D5185(m)	>20	1	4	8
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	4.7	5.5	6.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.0	21.4	21.8
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)		1	2	4
Boron	ppm	ASTM D5185(m)		20	91	169
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		52	27	1
Manganese	ppm	ASTM D5185(m)		0	<1	2
Magnesium	ppm	ASTM D5185(m)		840	430	39
Calcium	ppm	ASTM D5185(m)		1157	1717	2140
Phosphorus	ppm	ASTM D5185(m)		1012	1050	1042
Zinc	ppm	ASTM D5185(m)		1129	1121	1148
Sulfur	ppm	ASTM D5185(m)		2791	2864	3148
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.3	14.0	16.2
Visc @ 100°C	cSt	ASTM D7279(m)		14.9	14.1	13.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0021151 **Received** : 06 Mar 2024
Lab Number : 02620109 **Tested** : 06 Mar 2024
Unique Number : 5737219 **Diagnosed** : 06 Mar 2024 - Wes Davis
Test Package : MOB 1

Wajax Power Systems
 70 Raddall Avenue
 Dartmouth, NS
 CA B3B 1T7
 Contact: Danelle Hoffman
 dhoffman@wajax.com
 T: (902)468-6200
 F: (902)468-3325

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.