



POWER SYSTEMS
SYSTÈMES DE PUISSANCE

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
HALIFAX WATER [256883]
Machine Id
CATERPILLAR E5G04956
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		WA0021171	WA0019159	WA0017544
Sample Date		Client Info		26 Feb 2024	28 Mar 2023	18 Mar 2022
Machine Age	hrs	Client Info		101	100	30
Oil Age	hrs	Client Info		5	70	0
Filter Age	hrs	Client Info		5	70	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	5	12	25
Chromium	ppm	ASTM D5185(m)	>20	0	<1	1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	2	2	5
Lead	ppm	ASTM D5185(m)	>40	<1	1	4
Copper	ppm	ASTM D5185(m)	>330	15	41	99
Tin	ppm	ASTM D5185(m)	>15	0	<1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

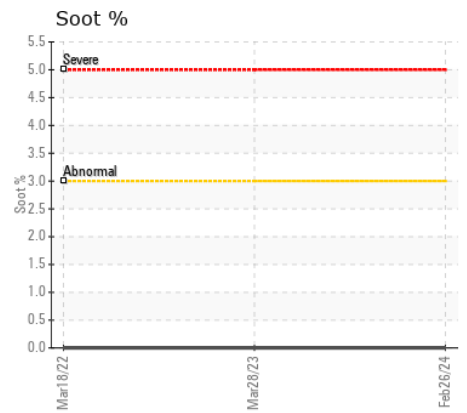
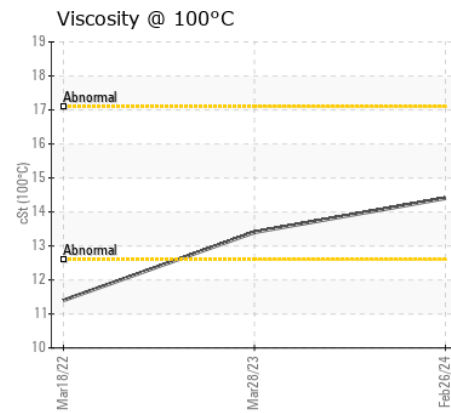
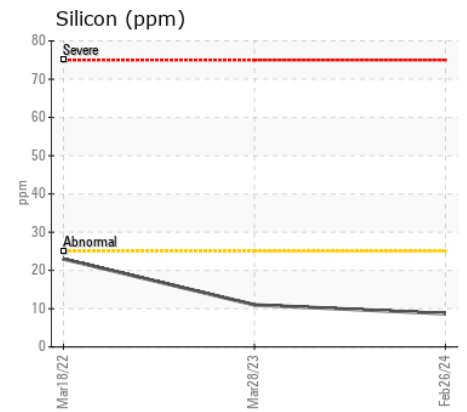
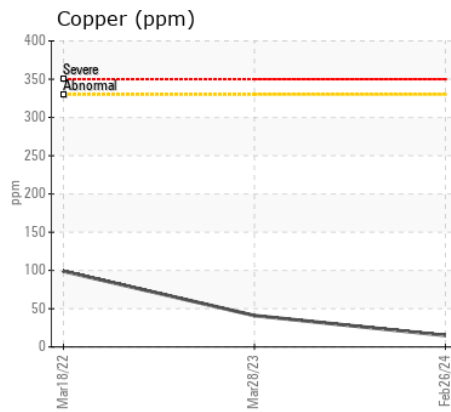
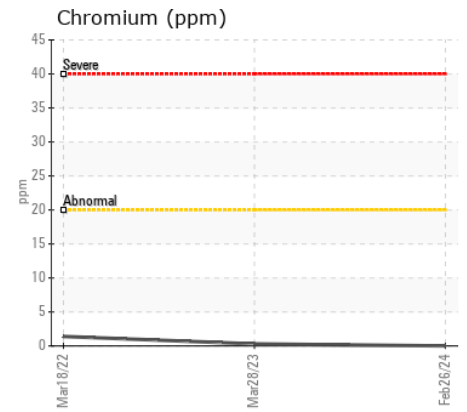
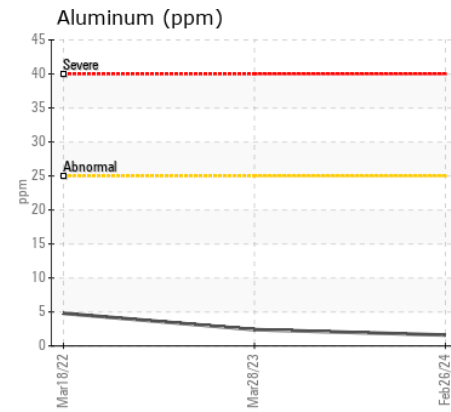
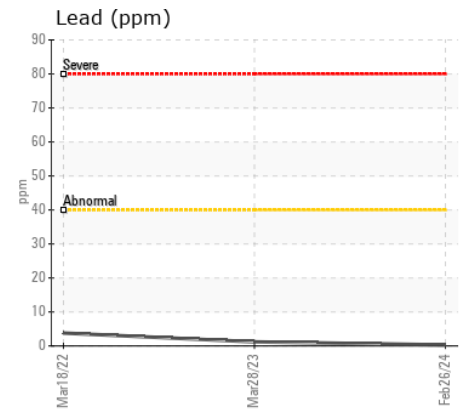
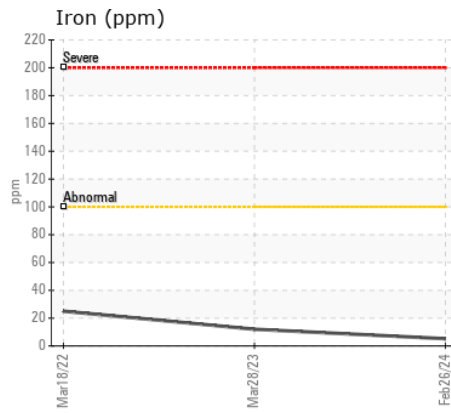
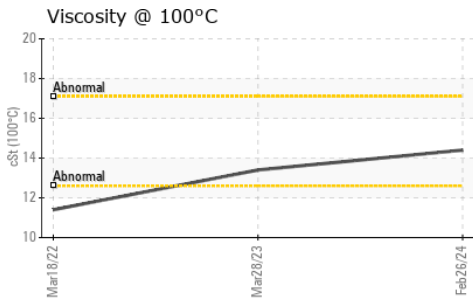
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	9	11	23
Potassium	ppm	ASTM D5185(m)	>20	<1	1	2
Fuel		WC Method	>5	<1.0	<1.0	0.9
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	5.3	4.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.8	21.1	19.4
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)		2	3	7
Boron	ppm	ASTM D5185(m)		5	15	51
Barium	ppm	ASTM D5185(m)		<1	1	6
Molybdenum	ppm	ASTM D5185(m)		54	45	8
Manganese	ppm	ASTM D5185(m)		0	2	4
Magnesium	ppm	ASTM D5185(m)		867	677	8
Calcium	ppm	ASTM D5185(m)		1117	1484	2373
Phosphorus	ppm	ASTM D5185(m)		986	1050	985
Zinc	ppm	ASTM D5185(m)		1118	1130	1083
Sulfur	ppm	ASTM D5185(m)		2737	2864	3504
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.9	13.9	13.3
Visc @ 100°C	cSt	ASTM D7279(m)		14.4	13.4	▲ 11.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0021171 **Received** : 06 Mar 2024
Lab Number : 02620110 **Tested** : 06 Mar 2024
Unique Number : 5737220 **Diagnosed** : 06 Mar 2024 - Wes Davis
Test Package : MOB 1

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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.