



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
CATERPILLAR R1600H SCP222
Component
Diesel Engine
Fluid
SHELL 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0940503	WC0920182	WC0902350
Sample Date		Client Info		09 May 2024	10 Apr 2024	11 Mar 2024
Machine Age	hrs	Client Info		1706	1373	1077
Oil Age	hrs	Client Info		0	250	250
Filter Age	hrs	Client Info		0	250	250
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	22	20	16
Chromium	ppm	ASTM D5185(m)	>20	<1	0	<1
Nickel	ppm	ASTM D5185(m)	>2	0	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	1
Aluminum	ppm	ASTM D5185(m)	>25	1	1	2
Lead	ppm	ASTM D5185(m)	>40	4	7	9
Copper	ppm	ASTM D5185(m)	>330	26	96	254
Tin	ppm	ASTM D5185(m)	>15	1	3	4
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

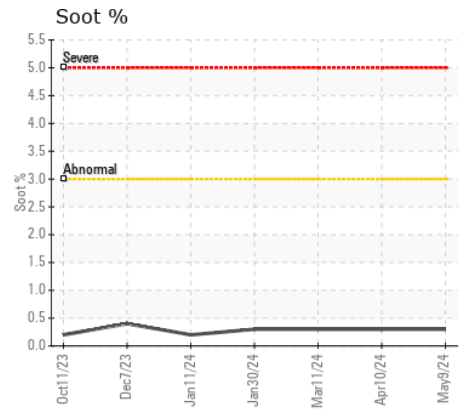
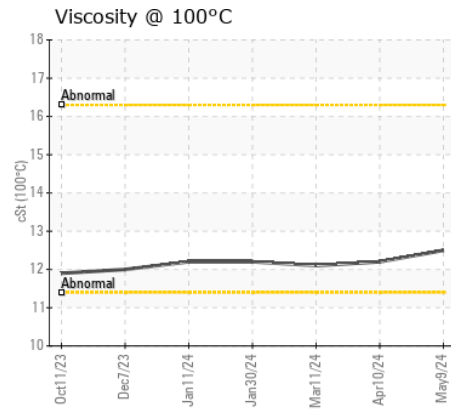
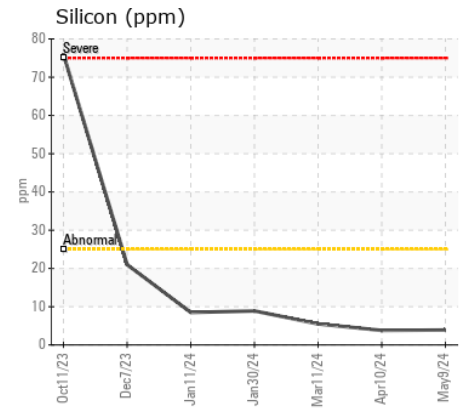
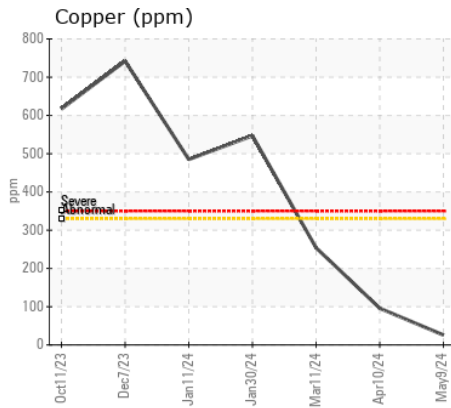
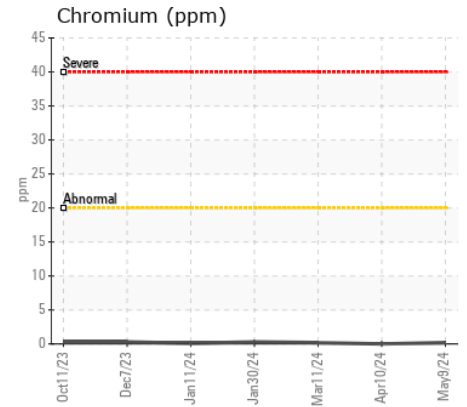
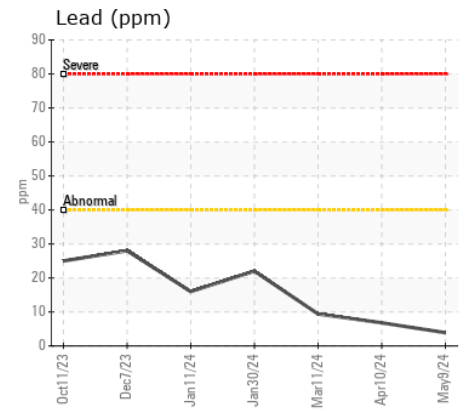
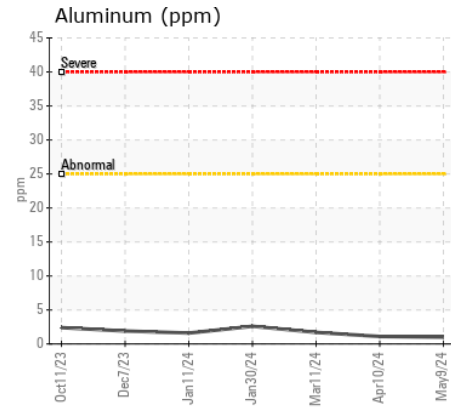
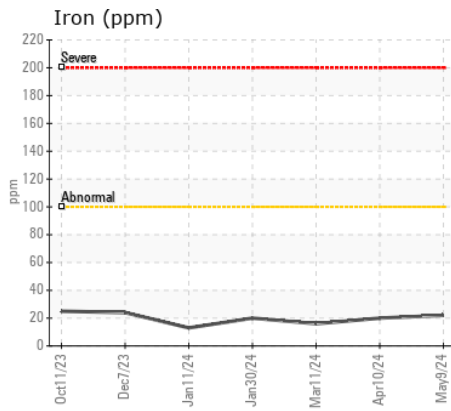
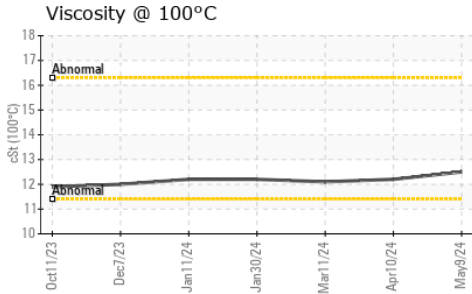
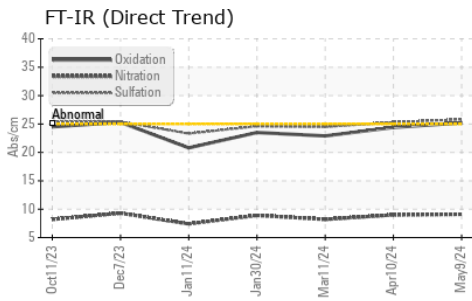
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	4	6
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
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	0.3	0.3	0.3
Nitration	Abs/cm	ASTM D7624*	>20	9.1	9.0	8.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.8	25.3	24.5
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)	>150	3	2	2
Boron	ppm	ASTM D5185(m)		40	40	40
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		38	37	39
Manganese	ppm	ASTM D5185(m)		<1	<1	0
Magnesium	ppm	ASTM D5185(m)		499	495	484
Calcium	ppm	ASTM D5185(m)		1701	1699	1687
Phosphorus	ppm	ASTM D5185(m)		694	694	729
Zinc	ppm	ASTM D5185(m)		841	839	832
Sulfur	ppm	ASTM D5185(m)		1919	1915	2031
Oxidation	Abs/.1mm	ASTM D7414*	>25	25.2	24.4	22.9
Visc @ 100°C	cSt	ASTM D7279(m)		12.5	12.2	12.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0940503
Lab Number : 02635529
Unique Number : 5776682
Test Package : MOB 1

Received : 15 May 2024
Tested : 15 May 2024
Diagnosed : 15 May 2024 - Kevin Marson

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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.