



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Machine Id
CATERPILLAR 953D 002019 (S/N LBP-02072)
Component
Hydraulic System
Fluid
CASTROL VECTON 15W40 CK4 (20 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0800389	WC0724535	WC0557673
Sample Date		Client Info		09 Feb 2024	26 Apr 2023	03 May 2022
Machine Age	hrs	Client Info		6882	6631	6155
Oil Age	hrs	Client Info		1000	476	575
Filter Age	hrs	Client Info		251	476	575
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	11	10	8
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>10	2	4	3
Lead	ppm	ASTM D5185m	>10	2	0	2
Copper	ppm	ASTM D5185m	>75	4	4	4
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	▲ MODER	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

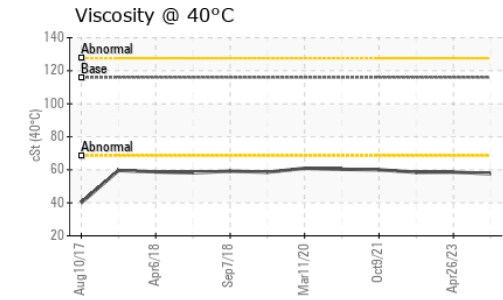
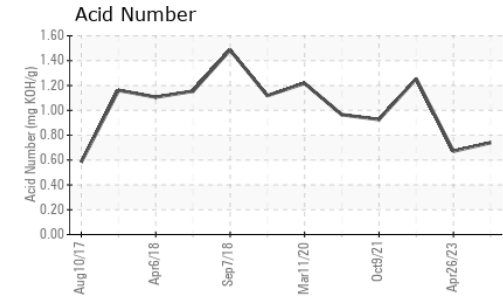
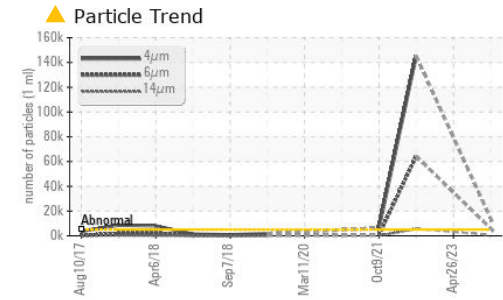
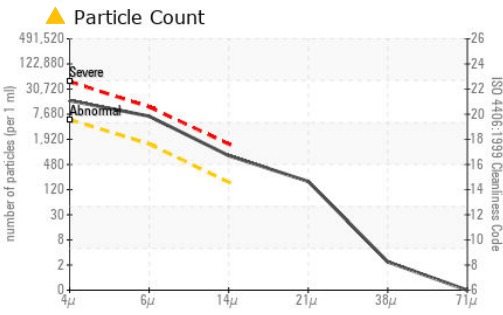
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>20	6	8	6
Potassium	ppm	ASTM D5185m	>20	2	1	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 14129	---	▲ 145121
Particles >6µm		ASTM D7647	>1300	▲ 5997	---	▲ 64263
Particles >14µm		ASTM D7647	>160	▲ 687	---	▲ 5624
Particles >21µm		ASTM D7647	>40	▲ 166	---	▲ 618
Particles >38µm		ASTM D7647	>10	2	---	▲ 18
Particles >71µm		ASTM D7647	>3	0	---	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 21/20/17	---	▲ 24/23/20
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		4	3	2
Boron	ppm	ASTM D5185m		41	45	45
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		26	30	29
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		372	412	421
Calcium	ppm	ASTM D5185m		809	946	916
Phosphorus	ppm	ASTM D5185m		795	845	804
Zinc	ppm	ASTM D5185m		943	1027	958
Sulfur	ppm	ASTM D5185m		2375	3193	2183
Acid Number (AN)	mg KOH/g	ASTM D8045		0.74	0.671	1.254
Visc @ 40°C	cSt	ASTM D445	116	57.6	58.6	58.5



Certificate L2367

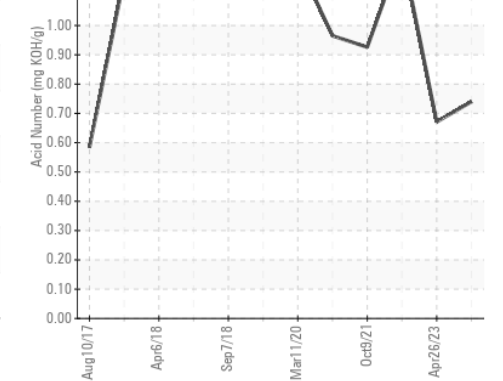
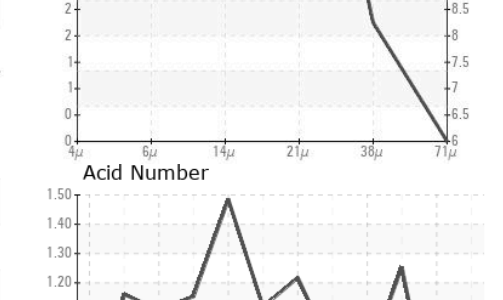
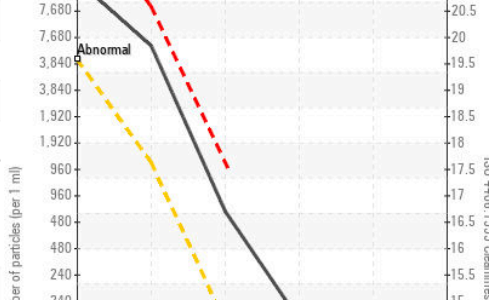
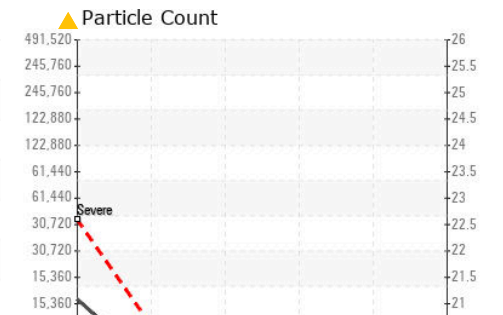
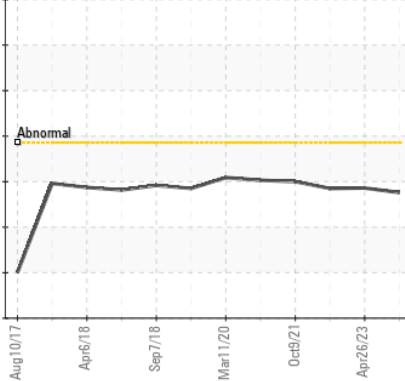
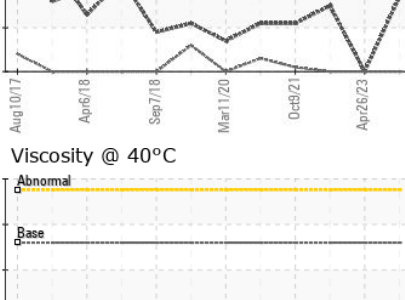
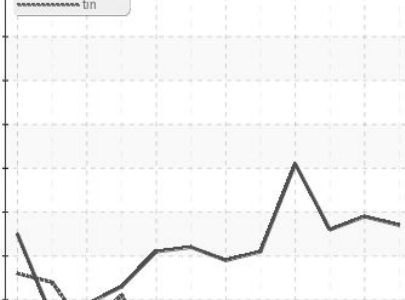
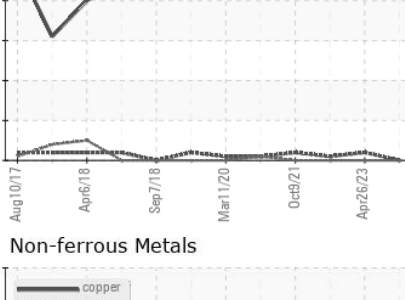
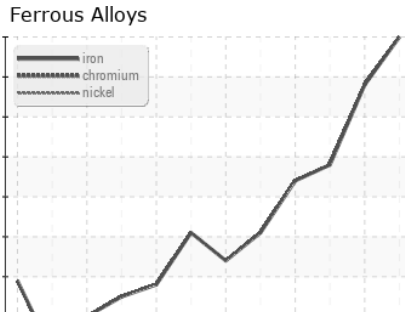
Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0800389
Lab Number : 06102411
Unique Number : 10900641
Test Package : CONST

Received : 27 Feb 2024
Tested : 28 Feb 2024
Diagnosed : 29 Feb 2024 - Don Baldrige

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)



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