

WEAR
CONTAMINATION
FLUID CONDITION

Limit/Abn

Current

History1

NORMAL SEVERE NORMAL

History2



CATERPILLAR 002377

Test

UOM

Acid Number (AN) mg KOH/g ASTM D8045

Visc @ 40°C cSt ASTM D445

Method

Component Hydraulic System

= (--- GAL)

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We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

There is a high amount of particulates (2 to 100 microns in size) present in the oil.

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The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sample Number		Client Info		WC0800527	WC0724622	WC0757994
Sample Date		Client Info		29 Nov 2023	09 Aug 2023	28 Mar 2023
Machine Age	hrs	Client Info		4360	3777	3144
Oil Age	hrs	Client Info		583	1500	644
Filter Age	hrs	Client Info		583	633	644
Oil Changed	1110	Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status		Oliciti IIIIo		SEVERE	ABNORMAL	ATTENTION
Iron	ppm	ASTM D5185m	>20	16	13	10
Chromium	ppm	ASTM D5185m	>10	<1	<1	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	2	0
Lead	ppm	ASTM D5185m	>10	<1	<1	<1
Copper	ppm	ASTM D5185m	>75	4	3	2
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
		40TH DE 10E		_	,	
Silicon	ppm	ASTM D5185m	>20	5	4	2
Potassium	ppm	ASTM D5185m	>20	2	2	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		82164	<u></u> 34104	8650
Particles >6µm		ASTM D7647	>1300	31142	<u>▲</u> 7828	▲ 2279
Particles >14µm		ASTM D7647	>160	1994	<u>467</u>	93
Particles >21µm		ASTM D7647	>40	441	<u> </u>	12
Particles >38µm		ASTM D7647	>10	14	1	1
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)		24/22/18	<u>^</u> 22/20/16	20/18/14
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
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
Sodium	ppm	ASTM D5185m		0	0	0
Boron	ppm	ASTM D5185m		3	2	3
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m		3	3	3
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		33	31	34
Calcium	ppm	ASTM D5185m		634	596	607
Phosphorus	ppm	ASTM D5185m		834	758	756
Zinc	ppm	ASTM D5185m		1044	1005	1071
Sulfur	ppm	ASTM D5185m		2870	2734	2925

0.73

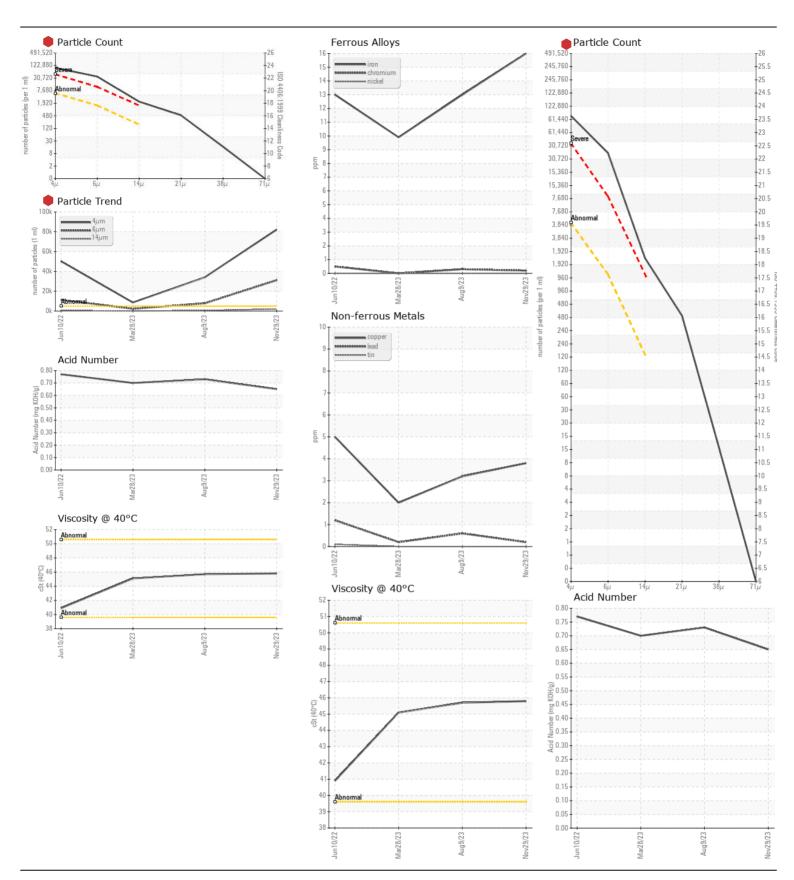
45.7

0.65

45.8

0.70

45.1





Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number**

: WC0800527 : 06060154 : 10831536 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 12 Jan 2024 Recieved Diagnosed : 16 Jan 2024 : Wes Davis Diagnostician

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.

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