

WEAR CONTAMINATION FLUID CONDITION

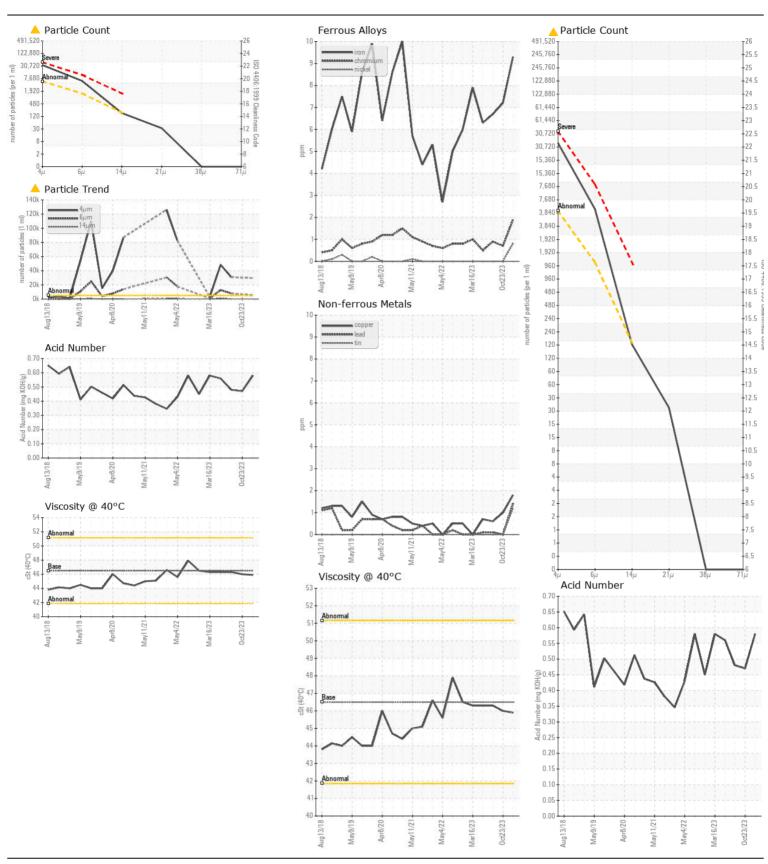
NORMAL ABNORMAL NORMAL



Machine Id CATERPILLAR D6K2 LGPAC 002098 (S/N OJTR01139)

Hydraulic System

CASTROL DUAL RANGE HV H							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		WC0856310	WC0823945	WC0724634
	Sample Date		Client Info		22 Mar 2024	23 Oct 2023	03 Aug 2020
	Machine Age	hrs	Client Info		10200	9661	9232
	Oil Age	hrs	Client Info		1500	429	69
	Filter Age	hrs	Client Info		539	429	69
	Oil Changed		Client Info		Changed	Not Changd	Not Chang
	Filter Changed Sample Status		Client Info		Changed ABNORMAL	Changed ABNORMAL	Changed
WEAR	Iron	ppm	ASTM D5185m		9	7	7
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		2	<1	<1
	Nickel	ppm	ASTM D5185m	>10	<1	0	0
	Titanium	ppm	ASTM D5185m		1	0	<1
	Silver	ppm	ASTM D5185m	40	0	0	0
	Aluminum	ppm	ASTM D5185m		4	ı	3
	Lead	ppm	ASTM D5185m		1	0	<1
	Copper	ppm	ASTM D5185m		2	0	<1
	Tin	ppm	ASTM D5185m	>10	1	0	0
	Vanadium White Metal	ppm	*Visual	NONE	<1 NONE		0 NONE
		scalar		NONE		▲ MODER	NONE
<u></u>	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	INOINE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	8	7	7
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.	Potassium	ppm	ASTM D5185m	>20	2	2	1
	Water		WC Method		NEG	NEG	NEG
	Particles >4µm		ASTM D7647		<u> </u>		<u></u> 30836
	Particles >6µm		ASTM D7647		<u>▲</u> 5233		<u>^</u> 7859
	Particles >14μm		ASTM D7647		152		285
	Particles >21μm		ASTM D7647		29		47
	Particles >38µm		ASTM D7647		0		2
	Particles >71μm		ASTM D7647		0		1
	Oil Cleanliness		ISO 4406 (c)		<u>^ 22/20/14</u>		22/20/1
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual *Visual	NORML	NORML NORML	NORML	NORM
	Odor Emulsified Water	scalar	*Visual	NORML >0.1	NEG	NORML NEG	NORM NEG
	Emuisineu vvalei	scalar	VISUAI	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	0	0
	Boron	ppm	ASTM D5185m		19	19	20
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.	Barium	ppm	ASTM D5185m		0	0	2
	Molybdenum	ppm	ASTM D5185m		4	3	3
	Manganese	ppm	ASTM D5185m		<1	0	0
	Magnesium	ppm	ASTM D5185m		54	57	59
	Calcium	ppm	ASTM D5185m		735	740	762
	Phosphorus	ppm	ASTM D5185m		473	406	461
	Zinc	ppm	ASTM D5185m		521	550	580
	Sulfur	ppm	ASTM D5185m		1387	1577	1584
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.58	0.47	0.48
	Visc @ 40°C	cSt	ASTM D445	46.5	45.9	46.0	46.3





Certificate L2367

Laboratory Sample No.

Lab Number

: WC0856310 : 06147274 Unique Number: 10977352 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received

: 12 Apr 2024 **Tested** : 15 Apr 2024 Diagnosed

: 15 Apr 2024 - Wes Davis

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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