

WEAR
CONTAMINATION
FLUID CONDITION

NORMAL

ABNORMAL

NORMAL

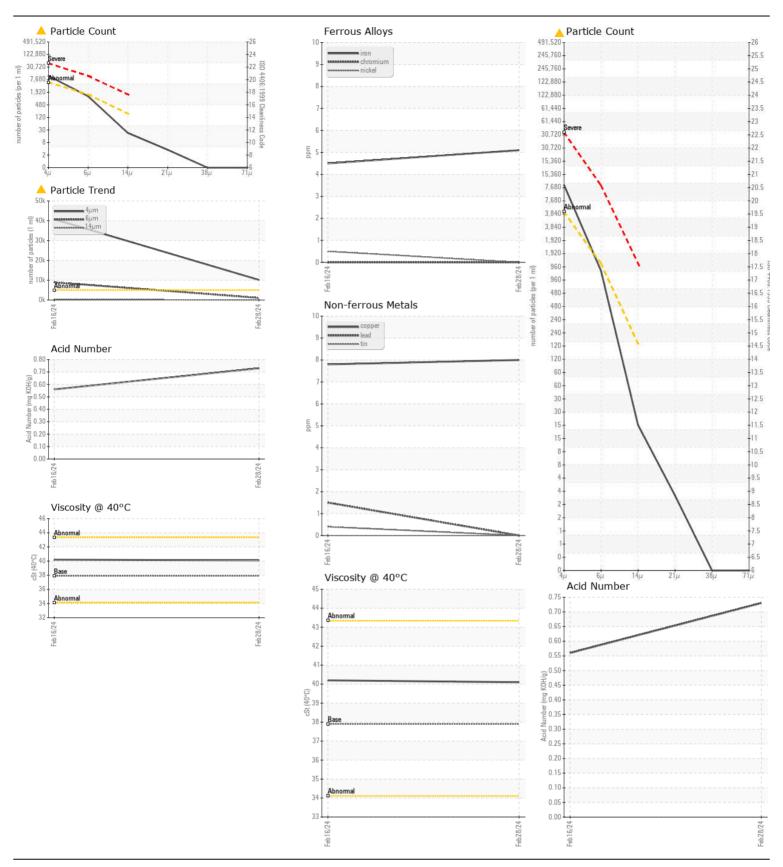


CATERPILLAR D2 LGP DZ2428 (S/N 0XKR00229)

Component
Hydraulic System
Fluid
CAT HYDO (--- GAL)

CAT HYDO (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		DC0033775	DC0033766	
No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Recheck with different method)	Sample Date		Client Info		28 Feb 2024	16 Feb 2024	
	Machine Age	hrs	Client Info		1034	1020	
	Oil Age	hrs	Client Info		1034	1020	
	Filter Age	hrs	Client Info		0	1020	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd	Changed	
	Sample Status				ABNORMAL	SEVERE	
WEAR	Iron	ppm	ASTM D5185m		5	4	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0	0	
	Nickel	ppm	ASTM D5185m	>10	0	<1	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		<1	2	
	Lead	ppm	ASTM D5185m		0	2	
	Copper	ppm	ASTM D5185m		8	8	
	Tin	ppm	ASTM D5185m	>10	0	<1	
	Vanadium	ppm	ASTM D5185m	NONE	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	13	14	
	Potassium	ppm	ASTM D5185m		<1	4	
There is a high amount of silt (particulates < 14 microns in size) present in the oil.	Water	pp	WC Method	>0.1	NEG	NEG	
	Particles >4µm		ASTM D7647		<u> </u>	▲ 40737	
	Particles >6µm		ASTM D7647		1074	▲ 8930	
	Particles >14µm		ASTM D7647		19	296	
	Particles >21µm		ASTM D7647		3	55	
	Particles >38µm		ASTM D7647	>10	0	0	
	Particles >71µm		ASTM D7647	>3	0	0	
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>	2 3/20/15	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
ELUID CONDITION	Ca aliaa		ACTM DE10E		4	0	
FLUID CONDITION	Sodium	ppm	ASTM D5185m ASTM D5185m		1 0	2	
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.	Boron Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		0	0	
	Manganese	ppm	ASTM D5185m		0	<1	
	Magnesium	ppm	ASTM D5185m		1	4	
	Calcium	ppm	ASTM D5185m		146	152	
	Phosphorus	ppm	ASTM D5185m	1100	639	683	
	Zinc	ppm	ASTM D5185m	1210	811	913	
	Sulfur	ppm	ASTM D5185m		1522	1647	
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.73	0.56	
	Vice @ 40°C	-Ct	ACTM DA45	07.0	40.4	40.0	

40.2





Certificate L2367

Report Id: COMFORMD [WUSCAR] 06106018 (Generated: 03/05/2024 13:49:06) Rev: 1

Laboratory Sample No.

: DC0033775 Lab Number : 06106018 Unique Number: 10909515 Test Package : MOB 2 To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 01 Mar 2024 **Tested** : 04 Mar 2024 Diagnosed

: 05 Mar 2024 - Don Baldridge

US 21050 Contact: DONALD FOX dfox@comerconstruction.com

* - 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)

Submitted By: DONALD FOX

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