WEAR CONTAMINATION FLUID CONDITION

ABNORMAL NORMAL NORMAL



Area [05W44711]

CATERPILLAR 950GC C285096 (S/N 0M5T05487)

Component **Pront Differential**

CAT TDTO SAE 50 (40 QTS)							
RECOMMENDATION No corrective action is recommended at this time. The oil 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		JR0203115	JR0192204	,
	Sample Date		Client Info		12 Feb 2024	14 Nov 2023	
	Machine Age	hrs	Client Info		2018	1485	
	Oil Age	hrs	Client Info		2018	1485	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Not Changd	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				ABNORMAL	ABNORMAL	
WEAR	PQ		ASTM D8184		91	74	
The copper level is abnormal. All other component wear rates are normal.	Iron	ppm	ASTM D5185m	>500	127	124	
	Chromium	ppm	ASTM D5185m	>3	<1	<1	
	Nickel	ppm	ASTM D5185m	>3	0	0	
	Titanium	ppm	ASTM D5185m	>2	<1	0	
	Silver	ppm	ASTM D5185m	>2	0	0	
	Aluminum	ppm	ASTM D5185m	>30	8	8	
	Lead	ppm	ASTM D5185m	>13	<1	2	
	Copper	ppm	ASTM D5185m	>103	<u> </u>	<u> </u>	
	Tin	ppm	ASTM D5185m	>5	<1	<1	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>100	7	8	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1	0	
	Water		WC Method	>.2	NEG	NEG	
	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	>.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4	4	
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		4	2	
	Barium	ppm	ASTM D5185m		2	3	
	Molybdenum	ppm	ASTM D5185m		0	<1	
	Manganese	ppm	ASTM D5185m		6	6	
	Magnesium	ppm	ASTM D5185m		11	8	
	Calcium	ppm	ASTM D5185m		2934	2977	
	Phosphorus	ppm	ASTM D5185m		1064	1073	
	Zinc	ppm	ASTM D5185m	1270	1329	1350	
	Sulfur	ppm	ASTM D5185m		4663	4627	

Visc @ 40°C

cSt

ASTM D445 195

86.9

87.3





Certificate L2367

Laboratory Sample No.

Lab Number : 06089708 Unique Number: 10877153

: JR0203115

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

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

Tested Diagnosed Test Package : CONST (Additional Tests: PQ)

: 14 Feb 2024 : 16 Feb 2024 : 16 Feb 2024 - Sean Felton

5700 LAKEWRIGHT DR, SUITE 300 NORFOLK, VA US 23502

Contact: ROBERT TAUBER rtauber@titanamerica.com T: (571)436-2579

* - 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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