

WEAR
CONTAMINATION
FLUID CONDITION

SEVERE NORMAL NORMAL



## **CATERPILLAR CS563C RL4712 (S/N 4KN01238)**

Component Front Left Planetary

Front Left Planetary  Fluid  {not provided} ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number	OOW	Client Info	LITTIO / NOT	DC0031421		
We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.	Sample Date		Client Info		14 Mar 2024		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				SEVERE		
WEAR							
WEAR	Iron	ppm	ASTM D5185m		201		
Bearing and/or bushing wear is indicated.	Chromium	ppm	ASTM D5185m		4		
	Nickel	ppm	ASTM D5185m	>10	1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		4		
	Lead	ppm	ASTM D5185m		<b>△</b> 99		
	Copper	ppm	ASTM D5185m		<b>480</b>		
	Tin	ppm	ASTM D5185m	>10	<u> </u>		
	Vanadium	ppm	ASTM D5185m	NONE	<1 NONE		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION  There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>75	15		
	Potassium	ppm	ASTM D5185m	>20	4		
	Water		WC Method	>0.2	NEG		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1		
The oil is no longer serviceable as a result of the abnormal and/or severe wear.	Boron	ppm	ASTM D5185m		57		
	Barium	ppm	ASTM D5185m		2		
	Molybdenum	ppm	ASTM D5185m		6		
	Manganese	ppm	ASTM D5185m		4		
	Magnesium	ppm	ASTM D5185m		24		
	Calcium	ppm	ASTM D5185m		3009		
	Phosphorus	ppm	ASTM D5185m		860		
	Zinc	ppm	ASTM D5185m		970		
	Sulfur	ppm	ASTM D5185m		6756		
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.90		

Visc @ 40°C cSt

ASTM D445

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Certificate L2367

Laboratory Sample No.

: DC0031421 Lab Number : 06125098 Unique Number: 10939249 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Mar 2024 **Tested** : 25 Mar 2024

: 25 Mar 2024 - Don Baldridge Diagnosed

**COMER CONSTRUCTION** 2100 SLADE LANE FOREST HILL, MD US 21050

Contact: RANDY SLADE rslade@comerconstruction.com

F: (410)638-0289

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)