

WEAR
CONTAMINATION
FLUID CONDITION

SEVERE

ABNORMAL

NORMAL

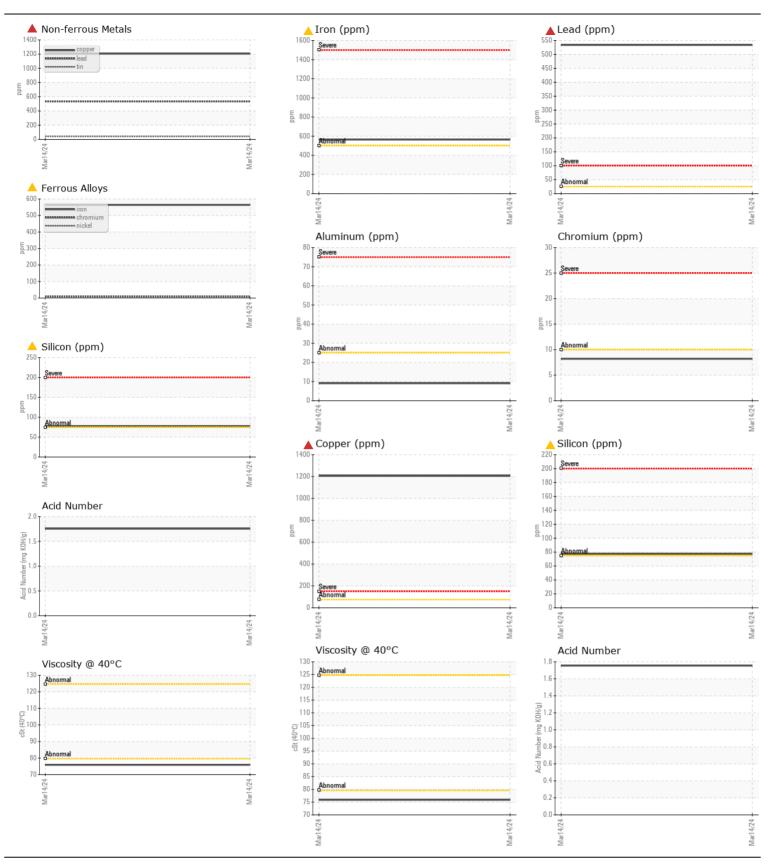


CATERPILLAR CS563C RL4711 (S/N 04KN01237)

Drive End Planetary

Drive End Planetary Fluid {not provided} (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info	2.1111071011	DC0032453		
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		
WEAD			40TM DE405				
WEAR Gear wear is indicated. Bearing and/or bushing wear is indicated.	Iron	ppm	ASTM D5185m		<u>▲</u> 564		
	Chromium	ppm	ASTM D5185m		8		
	Nickel	ppm	ASTM D5185m	>10	3		
	Titanium	ppm	ASTM D5185m		1		
	Silver	ppm	ASTM D5185m	0.5	<1		
	Aluminum	ppm	ASTM D5185m		9		
	Lead	ppm	ASTM D5185m		▲ 534		
	Copper	ppm	ASTM D5185m		1206		
	Tin	ppm	ASTM D5185m	>10	42		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	MODER		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION Elemental level of silicon (Si) above normal indicating ingress of dirt/seal material.	Silicon	ppm	ASTM D5185m	>75	<u> 77</u>		
	Potassium	ppm	ASTM D5185m	>20	5		
	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		
	Boron	ppm	ASTM D5185m		50		
The oil is no longer serviceable as a result of the abnormal and/or severe wear.	Barium	ppm	ASTM D5185m		3		
	Molybdenum	ppm	ASTM D5185m		4		
	Manganese	ppm	ASTM D5185m		7		
	Magnesium	ppm	ASTM D5185m		14		
	Calcium	ppm	ASTM D5185m		3565		
	Phosphorus		ASTM D5185m		821		
	Zinc	ppm	ASTM D5185m		1009		
		ppm					
	Sulfur	ppm ma I/OU/a	ASTM D5185m		6041		
	Acid Number (AN)	mg KOH/g	ASTM D8045		1.755		

75.9





Certificate L2367

Laboratory Sample No.

: DC0032453 Lab Number : 06125097 Unique Number: 10939248 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 : 21 Mar 2024 **Tested** : 25 Mar 2024 Diagnosed

: 25 Mar 2024 - Don Baldridge

COMER CONSTRUCTION 2100 SLADE LANE FOREST HILL, MD

US 21050

Contact: RANDY SLADE rslade@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)

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Submitted By: RANDY SLADE