

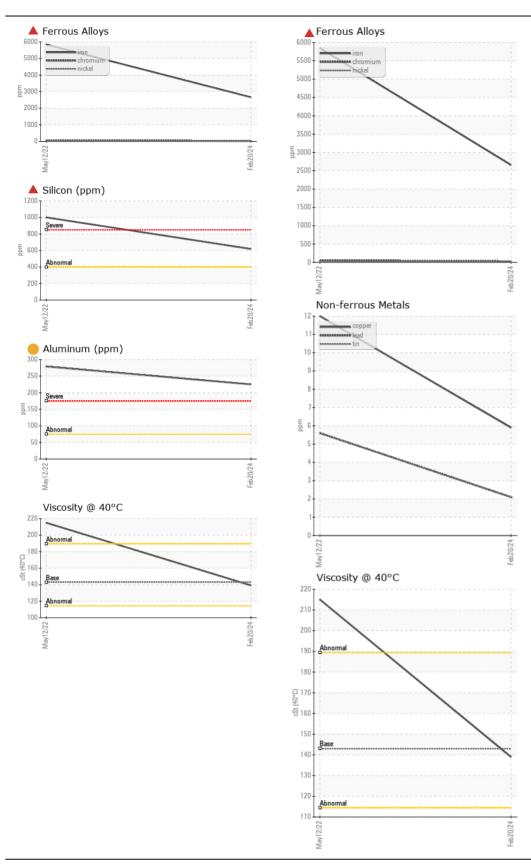
WEAR CONTAMINATION **FLUID CONDITION**

SEVERE SEVERE NORMAL



CATERPILLAR 303.5 3019 (S/N FLZ00989)

Right Final Drive GEAR OIL SAE 80W90 (GAL))						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.	Sample Number		Client Info		CL0005199	CL0003192	
	Sample Date		Client Info		20 Feb 2024	12 May 2022	
	Machine Age	hrs	Client Info		7565	6365	
	Oil Age	hrs	Client Info		1200	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				SEVERE	SEVERE	
WEAR	Iron	ppm	ASTM D5185m	>800	▲ 2656	▲ 5845	
Gear wear is indicated.	Chromium	ppm	ASTM D5185m		▲ 26	▲ 58	
	Nickel	ppm	ASTM D5185m		6	4	
	Titanium	ppm	ASTM D5185m	>15	16	18	
	Silver	ppm	ASTM D5185m	>2	0	0	
	Aluminum	ppm	ASTM D5185m	>75	225	279	
	Lead	ppm	ASTM D5185m	>10	2	6	
	Copper	ppm	ASTM D5185m	>75	6	12	
	Tin	ppm	ASTM D5185m	>8	0	0	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	White Metal	scalar	*Visual	NONE	LIGHT	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.	Silicon	ppm	ASTM D5185m	>400	▲ 618	1 001	
	Potassium	ppm	ASTM D5185m	>20	25	37	
	Water		WC Method	>0.2	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	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>170	19	30	
The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m	400	111	34	
	Barium	ppm	ASTM D5185m	200	2	0	
	Molybdenum	ppm	ASTM D5185m	12	4	8	
	Manganese	ppm	ASTM D5185m		20	41	
	Magnesium	ppm	ASTM D5185m	12	27	57	
	Calcium	ppm	ASTM D5185m	150	81	206	
	Phosphorus	ppm	ASTM D5185m	1650	682	410	
	Zinc	ppm	ASTM D5185m	125	44	128	
	Sulfur	ppm	ASTM D5185m		18716	17637	
	Visc @ 40°C	cSt	ASTM D445	143	139	215	







Certificate L2367

Laboratory Sample No.

: CL0005199 Lab Number : 06103912 Unique Number : 10902142 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 Feb 2024 : 29 Feb 2024 **Tested** Diagnosed

: 01 Mar 2024 - Don Baldridge

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)

PURCELL CONSTRUCTION

3100 HIGH RIDGE RD CHARLOTTE, NC US 28270

Contact: BEN MILKE ben@purcellconst.com

T:

F: