

**WEAR CONTAMINATION FLUID CONDITION** 

**SEVERE NORMAL NORMAL** 

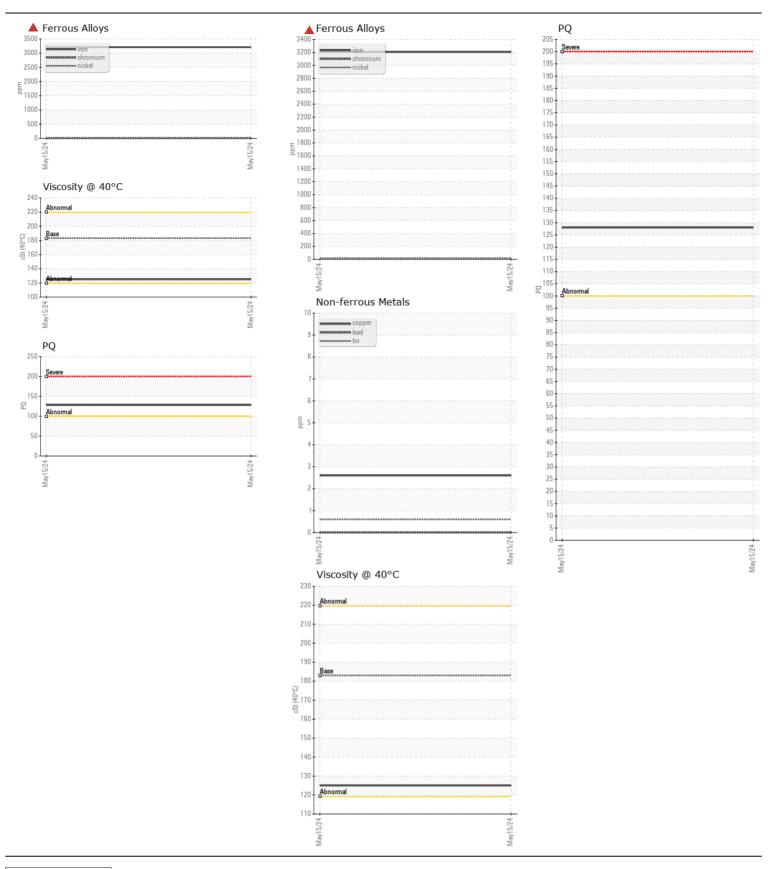
Store 9 - Marietta



## CATERPILLAR TL943C E124 (S/N THH00942)

Front Differential

GEAR OIL SAE 90 ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
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 Number		Client Info		LEC0048968		
	Sample Date		Client Info		15 May 2024		
	Machine Age	hrs	Client Info		6995		
	Oil Age	hrs	Client Info		500		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Changed		
	Sample Status				SEVERE		
WEAR	PQ		ASTM D8184		128		
Gear wear is indicated.	Iron	ppm	ASTM D5185m	>500	▲ 3207		
	Chromium	ppm	ASTM D5185m	>3	<b>4</b> 6		
	Nickel	ppm	ASTM D5185m	>3	2		
	Titanium	ppm	ASTM D5185m	>2	<1		
	Silver	ppm	ASTM D5185m	>2	0		
	Aluminum	ppm	ASTM D5185m	>30	2		
	Lead	ppm	ASTM D5185m	>13	0		
	Copper	ppm	ASTM D5185m	>103	3		
	Tin	ppm	ASTM D5185m	>5	<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>100	29		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2		
	Water		WC Method	>.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	>.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		13		
The oil is no longer serviceable as a result of the abnormal and/or severe wear.	Boron	ppm	ASTM D5185m	400	132		
	Barium	ppm	ASTM D5185m	200	2		
	Molybdenum	ppm	ASTM D5185m	12	129		
	Manganese	ppm	ASTM D5185m		33		
	Magnesium	ppm	ASTM D5185m		4		
	Calcium	ppm	ASTM D5185m		131		
	Phosphorus	ppm	ASTM D5185m		1730		
	Zinc	ppm	ASTM D5185m		147		
	Sulfur	ppm	ASTM D5185m		22454		
B	Visc @ 40°C	cSt	ASTM D445	183	125		





Certificate L2367

Laboratory Sample No.

: LEC0048968 Lab Number : 06196998

Unique Number : 11059121

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

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

: 31 May 2024 : 04 Jun 2024

: 04 Jun 2024 - Sean Felton

US 26330 Contact: JESSE WILBURN jesseowilburn@gmail.com T: (740)440-0927

LANE PIPELINE

2946 E MAIN ST

BRIDGEPORT, WV

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)