

**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL NORMAL NORMAL** 

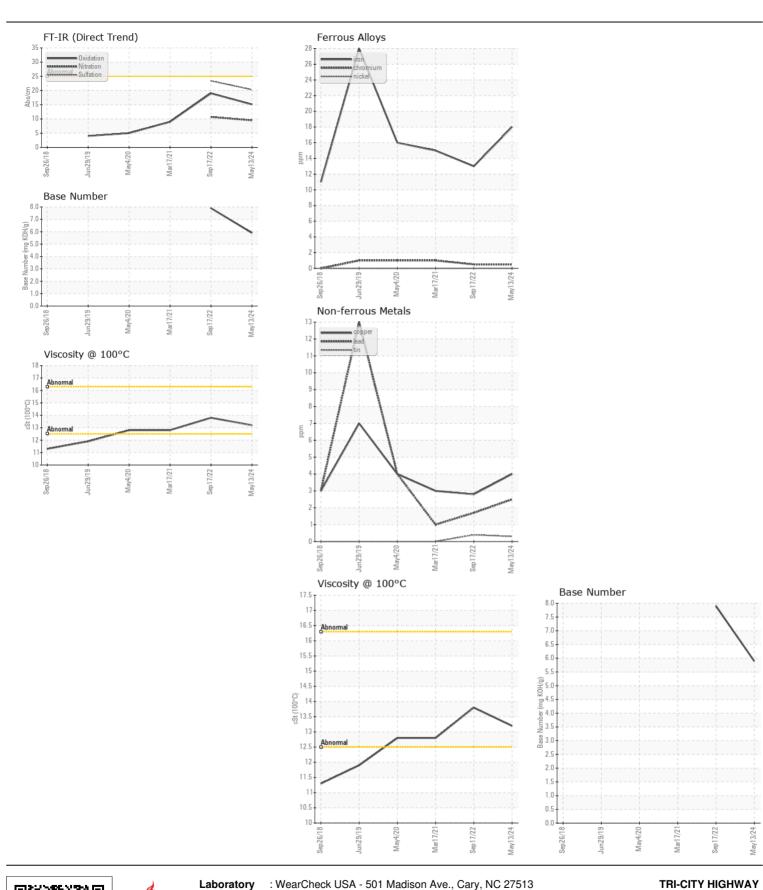


## Machine Id 609002 CATERPILLAR C-15

Diesel Engine

SHELL 15W40 ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0783577	WC0653594	WC81251003
	Sample Date		Client Info		13 May 2024	17 Sep 2022	17 Mar 2021
	Machine Age	hrs	Client Info		13774	13094	11395
	Oil Age	hrs	Client Info		500	250	
	Filter Age	hrs	Client Info		500	250	
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	18	13	15
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>6	<1	<1	1
	Nickel	ppm	ASTM D5185m	>4	0	0	0
	Titanium	ppm	ASTM D5185m	>2	<1	0	0
	Silver	ppm	ASTM D5185m	>2	<1	0	0
	Aluminum	ppm	ASTM D5185m	>30	2	2	2
	Lead	ppm	ASTM D5185m	>10	2	2	1
	Copper	ppm	ASTM D5185m	>150	4	3	3
	Tin	ppm	ASTM D5185m	>4	<1	<1	0
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	6	6	<u>^</u> 23
	Potassium	ppm	ASTM D5185m	>20	8	2	0
There is no indication of any contamination in the oil.	Chlorine	ppm	ASTM D5185m				0
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	0.0
	Soot %	%	*ASTM D7844	>3	0.4	0.6	0.73
	Nitration	Abs/cm	*ASTM D7624	>20	9.5	10.7	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	23.4	
	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	>150	5	2	3
The DN years tradicates that there is suitable all clinity remaining in the	Boron	ppm	ASTM D5185m		26	27	38
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		61	82	36
	Manganese	ppm	ASTM D5185m		<1	<1	0
	Magnesium	ppm	ASTM D5185m		62	164	492
	Calcium	ppm	ASTM D5185m		2231	2045	1489
	Phosphorus	ppm	ASTM D5185m		1014	1026	737
	Zinc	ppm	ASTM D5185m		1183	1226	781
	Sulfur	ppm	ASTM D5185m	6-	4621	4209	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1	19.0	9
	Base Number (BN)				5.9	7.9	10.0
	Visc @ 100°C	cSt	ASTM D445		13.2	13.8	12.8

Contact/Location: DAN CORBETT - TRIRICNY





Certificate L2367

Sample No.

Laboratory

Lab Number : 06191576 Unique Number : 11048328 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : WC0783577 : 24 May 2024 **Tested** : 29 May 2024

Diagnosed : 29 May 2024 - Angela Borella

US 12149 Contact: DAN CORBETT

dcorbett@tchpi.com

145 PODPADIC ROAD

RICHMONDVILLE, NY

T: F:

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)

Report Id: TRIRICNY [WUSCAR] 06191576 (Generated: 05/29/2024 18:16:00) Rev: 1

Contact/Location: DAN CORBETT - TRIRICNY