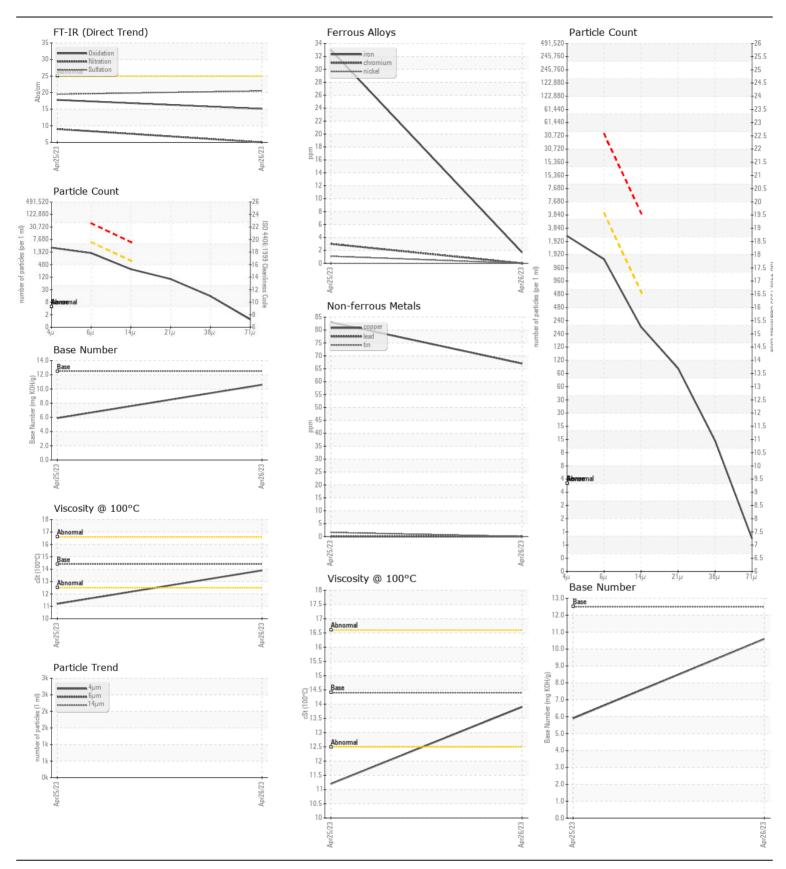
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

No Info On Sample

[No Info On Sample] NOT GIVEN PCA0094929 Diesel Engine

CHEVRON DELO 400 MULTIGRADE 15W40 (- GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
te comments / trioit	Sample Number		Client Info		KL0011868	PCA0094929	
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Date		Client Info		26 Apr 2023	25 Apr 2023	
	Machine Age	mls	Client Info		231	80007	
	Oil Age	mls	Client Info		5	40000	
	Filter Age	mls	Client Info		8	40000	
	Oil Changed		Client Info		Not Changd	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m		2	33	
All .	Chromium	ppm	ASTM D5185m		0	3	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	0	1	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m	>20	2	21	
	Lead	ppm	ASTM D5185m		0	0	
	Copper	ppm	ASTM D5185m		67	83	
	Tin	ppm	ASTM D5185m	>15	0	2	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	LIGHT	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		6	4	
Ti	Potassium	ppm	ASTM D5185m		0	45	
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0	0.6	
	Nitration	Abs/cm	*ASTM D7624	>20	5.0	9.0	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	19.5	
	Particles >4µm		ASTM D7647		2740		
	Particles >6µm		ASTM D7647	>5000	1493		
	Particles >14µm		ASTM D7647	>640	254		
	Particles >21μm		ASTM D7647	>160	86		
	Particles >38µm		ASTM D7647		13		
	Particles >71μm		ASTM D7647	>10	1		
	Oil Cleanliness		ISO 4406 (c)	>19/16	18/15		
	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	
TILLID CONDITION	0 "		AOTA DE LOE		_		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	454	0	2	
The DN words indicates that there is a control of the United Section 2.	Boron	ppm	ASTM D5185m		384	4	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m	250	114	59	
	Manganese	ppm	ASTM D5185m		<1	2	
	Magnesium	ppm	ASTM D5185m		674	923	
	Calcium	ppm	ASTM D5185m		1581	1239	
	Phosphorus	ppm	ASTM D5185m		774	880	
	Zinc	ppm	ASTM D5185m		919	1169	
	Sulfur	ppm	ASTM D5185m		3211	2449	
	Oxidation	Abs/.1mm	*ASTM D7414		15.1	17.8	
	Base Number (BN)				10.59	5.9	
	Visc @ 100°C	cSt	ASTM D445	14.4	13.9	11.2	





Certificate L2367

Laboratory Sample No.

Lab Number : 05838596

: KL0011868 Unique Number: 10457399

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Test Package : MOB 2 (Additional Tests: PrtCount)

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

: 04 May 2023 : 08 May 2023

: 08 May 2023 - Wes Davis

RIVANNA WATER & SEWER AUTHORITY 695 MOORES CREEKE LN CHARLOTTESVILLE, VA US 22902

Contact: Steven Minnis Sr. sminnis@rivanna.org T: (434)977-2970

* - 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)

F: (434)979-6411