WEAR CONTAMINATION FLUID CONDITION

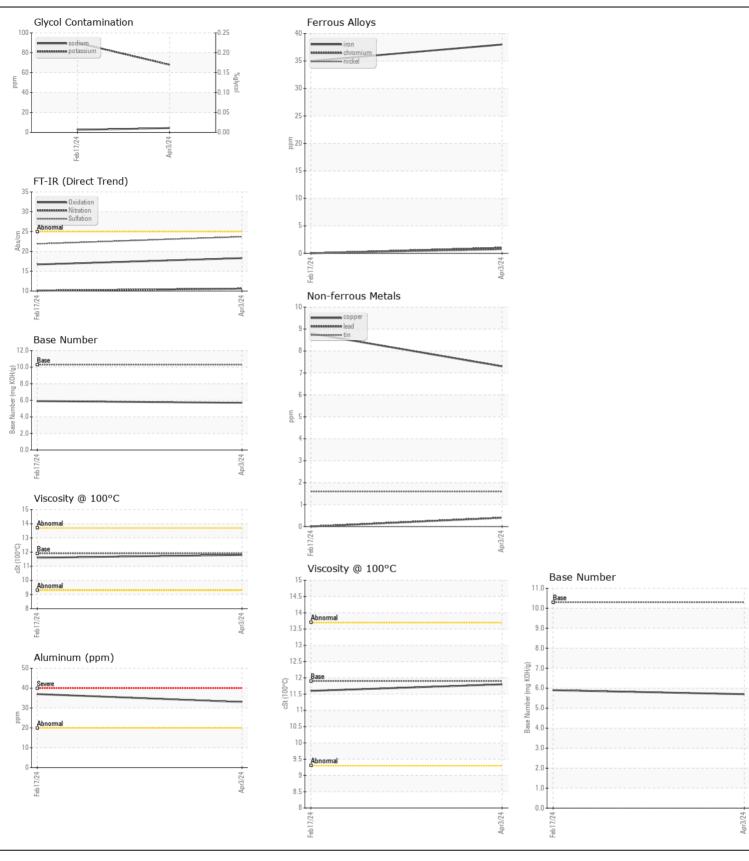
NORMAL NORMAL NORMAL

Machine Id

**13043**Component

## Component Diesel Engine

CHEVRON DELO 400 XLE 10W30 ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		WC0833160	WC0833159	
	Sample Date		Client Info		03 Apr 2024	17 Feb 2024	
	Machine Age	mls	Client Info		39177	15180	
	Oil Age	mls	Client Info		39124	15180	
	Filter Age	mls	Client Info		39124	15180	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	38	35	
All component week vates are newed	Chromium	ppm	ASTM D5185m	>20	1	0	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	<1	0	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m	>3	<1	0	
	Aluminum	ppm	ASTM D5185m	>20	33	37	
	Lead	ppm	ASTM D5185m	>40	<1	0	
	Copper	ppm	ASTM D5185m	>330	7	9	
	Tin	ppm	ASTM D5185m		2	2	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. No other contaminants were detected in the oil.	Silicon	ppm	ASTM D5185m	>25	13	11	
	Potassium	ppm	ASTM D5185m	>20	68	90	
	Fuel		WC Method	>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.6	0.3	
	Nitration	Abs/cm	*ASTM D7624	>20	10.6	10.1	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7	21.9	
	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		4	2	
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.	Boron	ppm	ASTM D5185m		39	34	
	Barium	ppm	ASTM D5185m		1	0	
	Molybdenum	ppm	ASTM D5185m		2	0	
	Manganese	ppm	ASTM D5185m		2	2	
	Magnesium	ppm	ASTM D5185m		1146	831	
	Calcium	ppm	ASTM D5185m	2900	2124	1498	
	Phosphorus	ppm	ASTM D5185m	1100	1153	758	
	Zinc	ppm	ASTM D5185m	1200	1259	911	
	Sulfur	ppm	ASTM D5185m	4000	4943	3280	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.3	16.7	
	Base Number (BN)	mg KOH/g	ASTM D2896	10.3	5.7	5.9	
	Visc @ 100°C	cSt	ASTM D445	11 9	11.8	11.6	





Certificate L2367

Laboratory Sample No.

Lab Number : 06149853 Unique Number : 10979931

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0833160

Diagnosed Test Package : FLEET

Received : 16 Apr 2024 **Tested** : 17 Apr 2024 : 18 Apr 2024 - Don Baldridge LTI/MILKY WAY - MOSES 120 WISER LANE MOSES LAKE, WA US 98837

Contact: MIGUEL PEREZ

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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) F: (500)765-5636 Contact/Location: MIGUEL PEREZ - LTIMOS