**WEAR CONTAMINATION FLUID CONDITION**  **ABNORMAL NORMAL NORMAL** 

**OIL ANALYSIS REPORT** 

## **CHEVY CHEVY 2500**

Diesel Engine

TRC PRO-SPEC IV XP SYN BLEND 15W40 (10	.=/						
The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		TR02620736	TR02570522	TR0251932
	Sample Date		Client Info		01 Mar 2024	07 Jul 2023	19 Oct 202
	Machine Age	hrs	Client Info		185000	145000	105000
	Oil Age	hrs	Client Info		20000	20000	20000
	Filter Age	hrs	Client Info		20000	20000	20000
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		N/A	Not Changd	N/A
	Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR	PQ		ASTM D8184*		0	0	
Iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated.	Iron	ppm	ASTM D5185(m)	>100	<u> </u>	<b>△</b> 117	65
	Chromium	ppm	ASTM D5185(m)	>20	2	2	1
	Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
	Titanium	ppm	ASTM D5185(m)		0	0	<1
	Silver	ppm	ASTM D5185(m)	>3	0	<1	0
	Aluminum	ppm	ASTM D5185(m)	>20	5	4	3
	Lead	ppm	ASTM D5185(m)	>40	<1	<1	1
	Copper	ppm	ASTM D5185(m)	>330	2	6	19
	Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185(m)		0	0	0
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. There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185(m)	>25	7	8	8
	Potassium	ppm	ASTM D5185(m)	>20	7	3	2
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	ASTM D7844*	>3	0.9	0.9	0.6
	Nitration	Abs/cm	ASTM D7624*	>20	14.8	13.7	12.2
	Sulfation	Abs/.1mm	ASTM D7415*	>30	25.8	26.0	24.1
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		3	3	2
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.	Boron	ppm	ASTM D5185(m)		2	<1	<1
	Barium	ppm	ASTM D5185(m)		0	0	0
	Molybdenum	ppm	ASTM D5185(m)		1	<1	<1
	Manganese	ppm	ASTM D5185(m)		<1	<1	<1
	Magnesium	ppm	ASTM D5185(m)		20	17	16
	Calcium	ppm	ASTM D5185(m)		4004	4087	3997
	Phosphorus	ppm	ASTM D5185(m)		840	842	878
	Zinc	ppm	ASTM D5185(m)		930	932	976
	Sulfur	ppm	ASTM D5185(m)		3231	3014	2979
	Oxidation	Abs/.1mm	ASTM D7414*	>25	19.1	20.3	16.3

Visc @ 100°C cSt

Base Number (BN) mg KOH/g ASTM D2896\*

ASTM D7279(m) 15.5

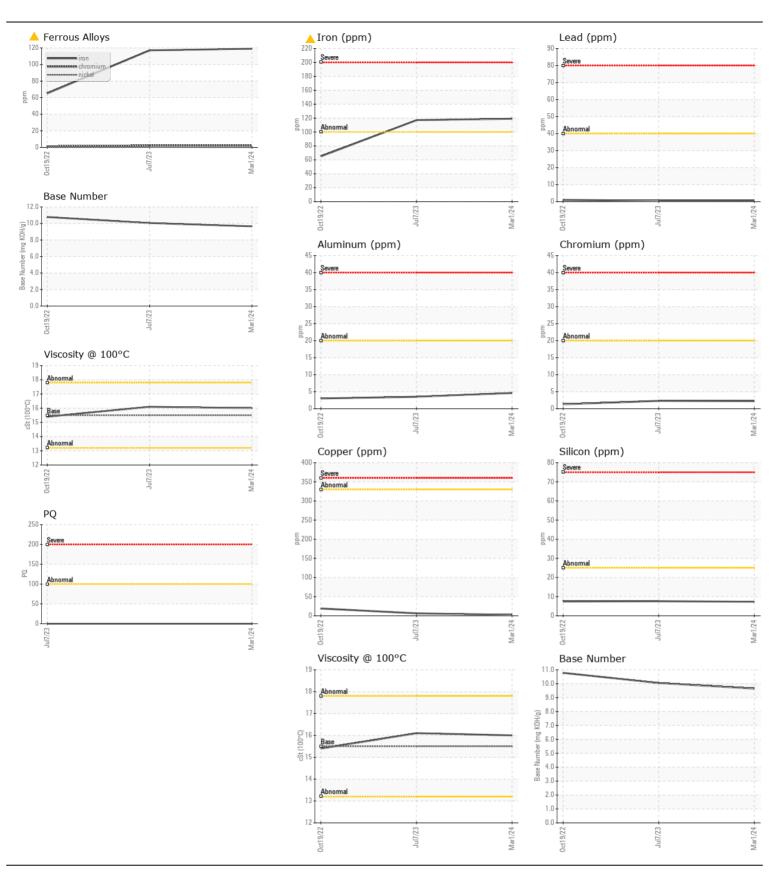
10.05

9.65

16.0

15.4

10.78





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No. Lab Number

: TR02620736 : 02620736

Unique Number : 5737846

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 08 Mar 2024 **Tested** : 11 Mar 2024

: 11 Mar 2024 - Kevin Marson Diagnosed

Test Package: MOB 2 (Additional Tests: PQ)

To discuss this sample report, contact Customer Service at 1-800-827-0711. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

**DELCO COLONY BOX #39** NEW DAYTON, AB

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)