TRAAP
Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
CHEVY CHEVY 2500
Component
Diesel Engine
Fluid
TRC PRO-SPEC IV XP SYN BLEND 15W40 (10 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

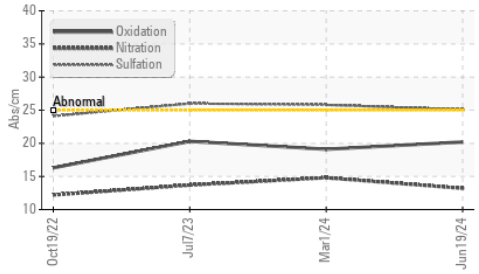
There is no indication of any contamination in the oil.

FLUID CONDITION

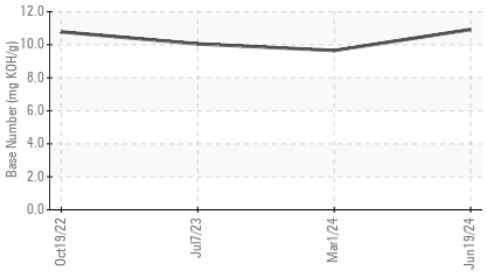
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR02645096	TR02620736	TR02570522
Sample Date		Client Info		19 Jun 2024	01 Mar 2024	07 Jul 2023
Machine Age	hrs	Client Info		200000	185000	145000
Oil Age	hrs	Client Info		15000	20000	20000
Filter Age	hrs	Client Info		15000	20000	20000
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		Not Changd	N/A	Not Changd
Sample Status				NORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185(m)	>100	93	▲ 119	▲ 117
Chromium	ppm	ASTM D5185(m)	>20	2	2	2
Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
Titanium	ppm	ASTM D5185(m)		<1	0	0
Silver	ppm	ASTM D5185(m)	>3	<1	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	3	5	4
Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
Copper	ppm	ASTM D5185(m)	>330	2	2	6
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>25	6	7	8
Potassium	ppm	ASTM D5185(m)	>20	4	7	3
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	0.8	0.9	0.9
Nitration	Abs/cm	ASTM D7624*	>20	13.2	14.8	13.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.1	25.8	26.0
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		3	3	3
Boron	ppm	ASTM D5185(m)		2	2	<1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		10	1	<1
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		22	20	17
Calcium	ppm	ASTM D5185(m)		3697	4004	4087
Phosphorus	ppm	ASTM D5185(m)		808	840	842
Zinc	ppm	ASTM D5185(m)		935	930	932
Sulfur	ppm	ASTM D5185(m)		3056	3231	3014
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.2	19.1	20.3
Base Number (BN)	mg KOH/g	ASTM D2896*		10.92	9.65	10.05
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	14.7	16.0	16.1

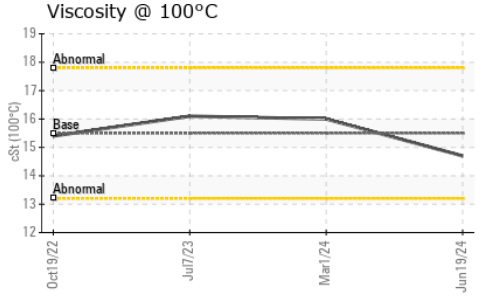
FT-IR (Direct Trend)



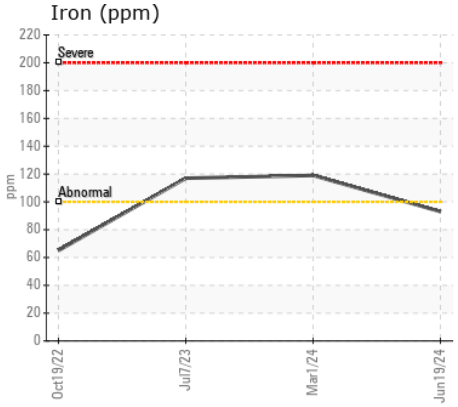
Base Number



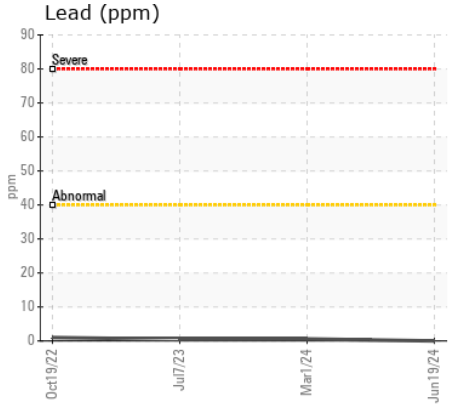
Viscosity @ 100°C



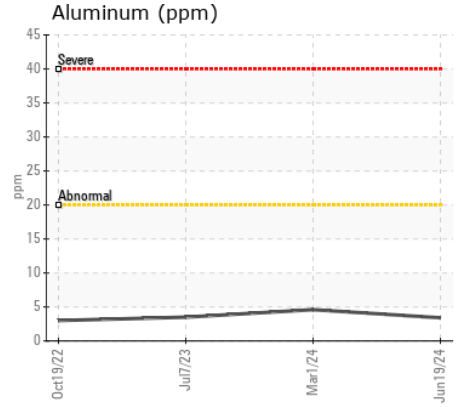
Iron (ppm)



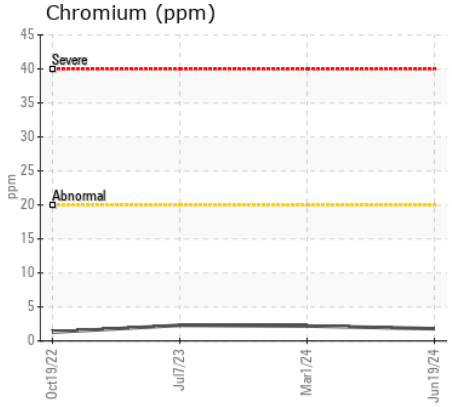
Lead (ppm)



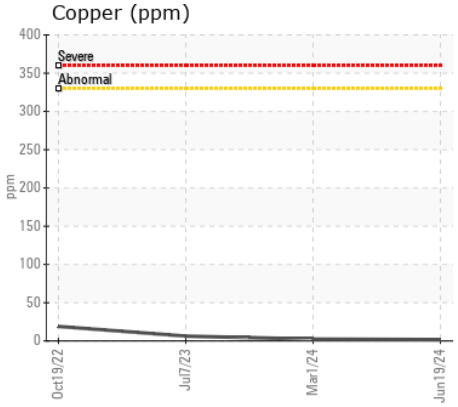
Aluminum (ppm)



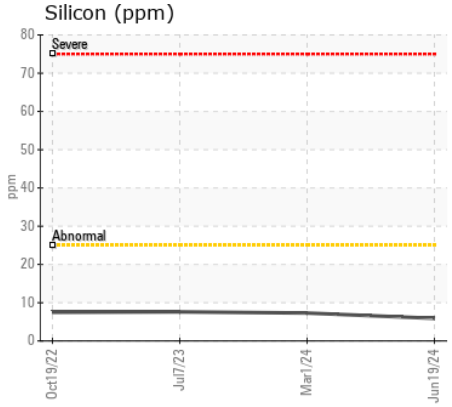
Chromium (ppm)



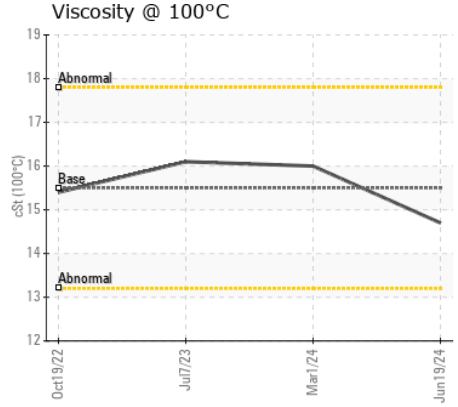
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



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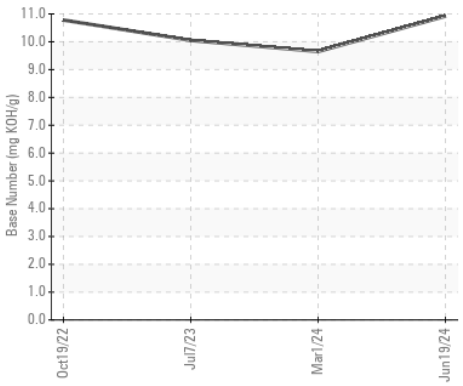

ISO 17025:2017 Accredited Laboratory

Laboratory	: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9		
Sample No.	: TR02645096	**Received**	: 02 Jul 2024
Lab Number	: 02645096	**Tested**	: 03 Jul 2024
Unique Number	: 5802635	**Diagnosed**	: 03 Jul 2024 - Wes Davis
Test Package	: MOB 2		

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

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