



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
CHEVROLET 058KVJ

Component
Diesel Engine

Fluid
TRC PRO-SPEC 0W/40 SYNTHETIC MOTOR OIL (11 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR02618269	TR02467487	TR02420323
Sample Date		Client Info		02 Feb 2024	06 Jan 2022	06 Apr 2021
Machine Age	kms	Client Info		208375	128098	96894
Oil Age	kms	Client Info		34515	27098	38064
Filter Age	kms	Client Info		34515	27098	38064
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	81	▲ 112	61
Chromium	ppm	ASTM D5185(m)	>20	1	2	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	13	21	5
Lead	ppm	ASTM D5185(m)	>40	4	7	<1
Copper	ppm	ASTM D5185(m)	>330	12	14	2
Tin	ppm	ASTM D5185(m)	>15	2	2	<1
Vanadium	ppm	ASTM D5185(m)		0	<1	<1

CONTAMINATION

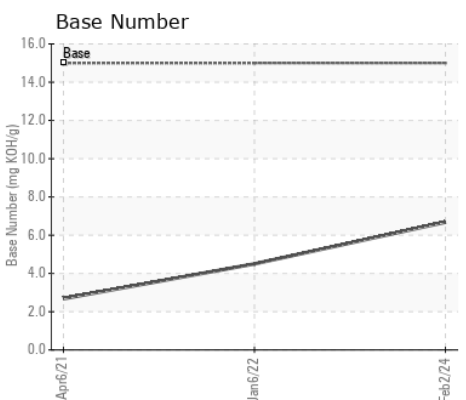
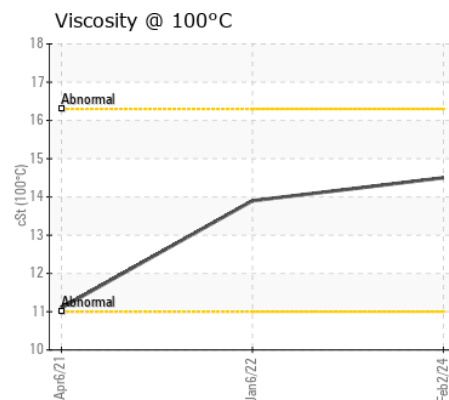
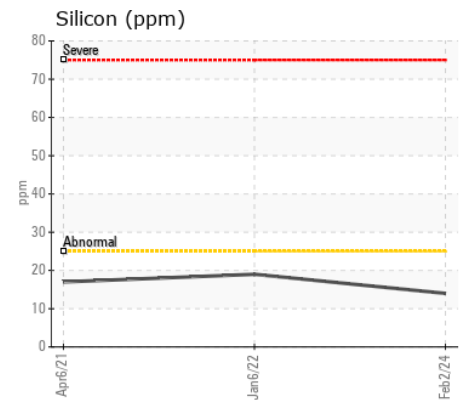
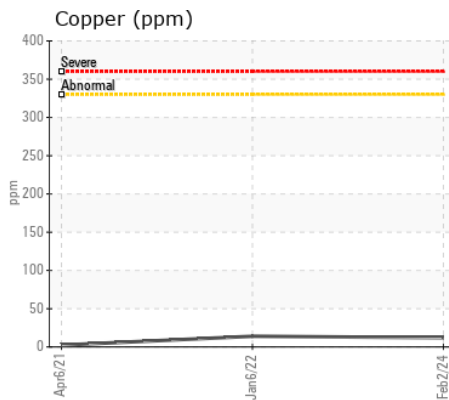
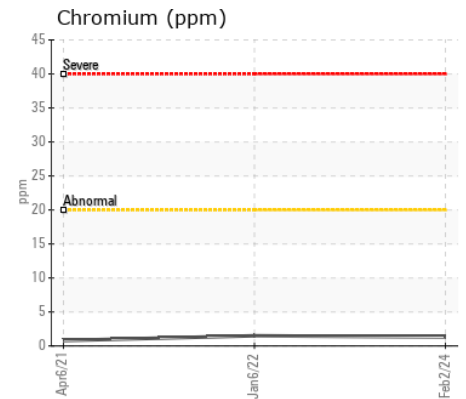
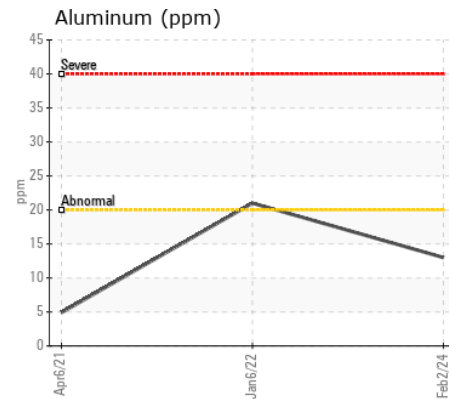
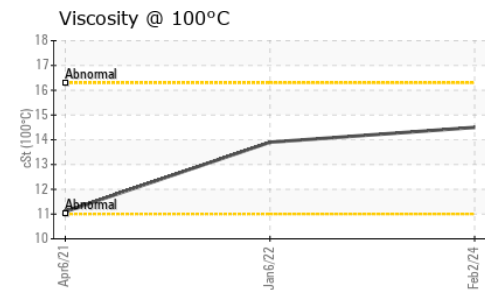
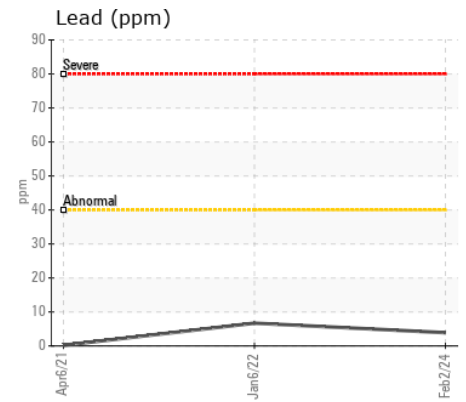
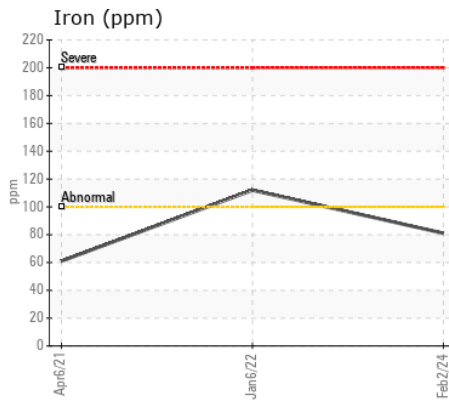
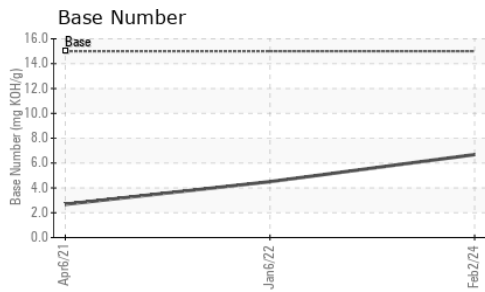
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	14	19	17
Potassium	ppm	ASTM D5185(m)	>20	26	56	5
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	1.3	1.2	0
Nitration	Abs/cm	ASTM D7624*	>20	17.5	17.3	11.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	43.1	45.2	36.3
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

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.

Sodium	ppm	ASTM D5185(m)		4	4	10
Boron	ppm	ASTM D5185(m)		23	27	14
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		92	105	71
Manganese	ppm	ASTM D5185(m)		<1	2	5
Magnesium	ppm	ASTM D5185(m)	6	82	33	577
Calcium	ppm	ASTM D5185(m)	1600	2083	2086	1430
Phosphorus	ppm	ASTM D5185(m)		875	949	827
Zinc	ppm	ASTM D5185(m)	1400	1012	1048	1059
Sulfur	ppm	ASTM D5185(m)		3198	3156	2696
Oxidation	Abs/.1mm	ASTM D7414*	>25	49.7	50.5	35.2
Base Number (BN)	mg KOH/g	ASTM D2896*	15	6.68	4.50	▲ 2.68
Visc @ 100°C	cSt	ASTM D7279(m)		14.5	13.9	11.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : TR02618269 **Received** : 27 Feb 2024
Lab Number : 02618269 **Tested** : 27 Feb 2024
Unique Number : 5735379 **Diagnosed** : 28 Feb 2024 - Kevin Marson
Test Package : MOB 2

VERN FIOR
 91 RIVERS EDGE LANE
 SASKATOON, SK
 CA S7K 3J9
 Contact: Service Manager

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)

T: (306)270-1846

F: