



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
CHEVROLET 1GCUDGE81PZ210867
 Component
Diesel Engine
 Fluid
TRC PRO-SPEC SYNTHETIC 0W20 (7 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR02617616	TR02612416	---
Sample Date		Client Info		16 Feb 2024	25 Jan 2024	---
Machine Age	kms	Client Info		57200	53365	---
Oil Age	kms	Client Info		7200	3000	---
Filter Age	kms	Client Info		7200	3000	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	32	14	---
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>4	<1	0	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	4	3	---
Lead	ppm	ASTM D5185(m)	>40	0	<1	---
Copper	ppm	ASTM D5185(m)	>330	2	1	---
Tin	ppm	ASTM D5185(m)	>15	<1	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

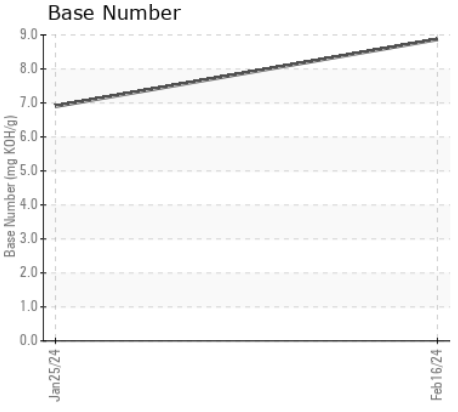
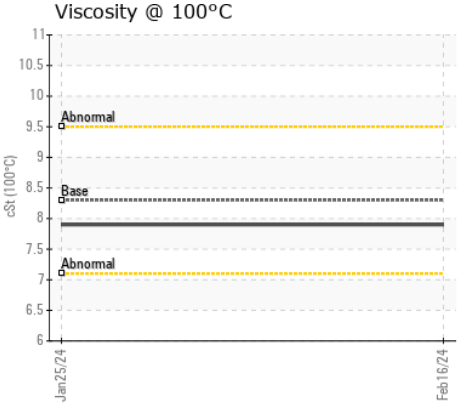
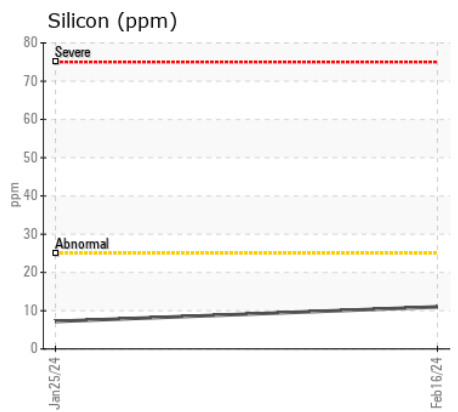
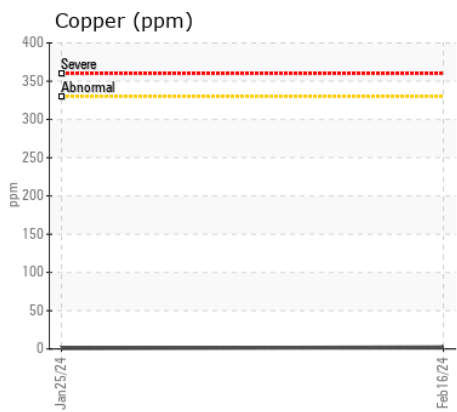
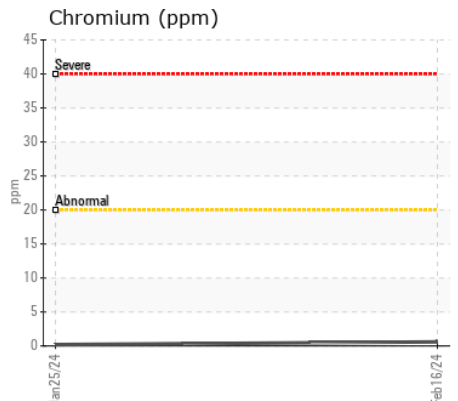
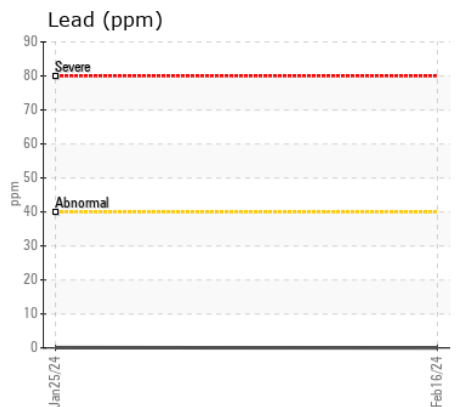
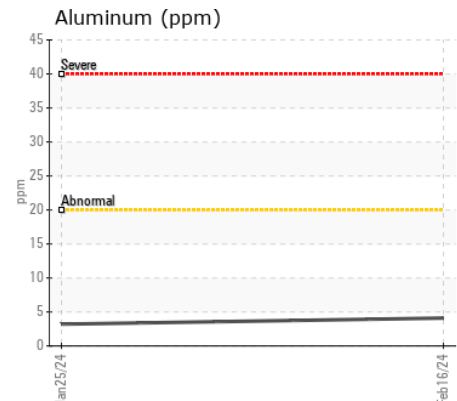
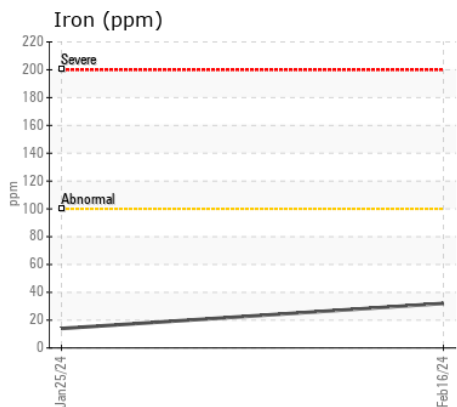
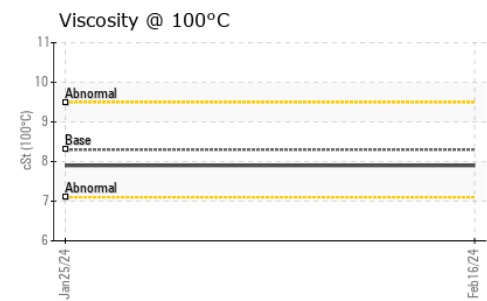
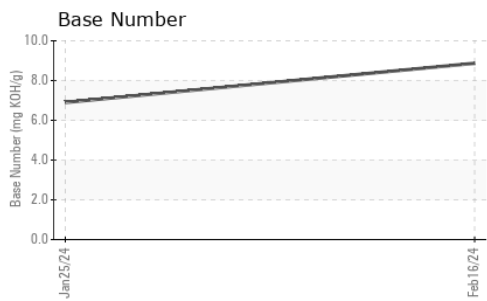
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	11	7	---
Potassium	ppm	ASTM D5185(m)	>20	1	<1	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0.7	0.3	---
Nitration	Abs/cm	ASTM D7624*	>20	8.7	6.7	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.3	16.8	---
Emulsified Water	scalar	Visual*	>0.2	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)		1	1	---
Boron	ppm	ASTM D5185(m)		74	130	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		186	183	---
Manganese	ppm	ASTM D5185(m)		<1	0	---
Magnesium	ppm	ASTM D5185(m)		527	516	---
Calcium	ppm	ASTM D5185(m)	2100	1220	1205	---
Phosphorus	ppm	ASTM D5185(m)		693	677	---
Zinc	ppm	ASTM D5185(m)	870	766	771	---
Sulfur	ppm	ASTM D5185(m)		2626	2747	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.8	10.4	---
Base Number (BN)	mg KOH/g	ASTM D2896*		8.87	6.90	---
Visc @ 100°C	cSt	ASTM D7279(m)	8.3	7.9	7.9	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : TR02617616 **Received** : 23 Feb 2024
Lab Number : 02617616 **Tested** : 23 Feb 2024
Unique Number : 5734726 **Diagnosed** : 23 Feb 2024 - Wes Davis
Test Package : MOB 2

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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)