



TRAAP

Texas Refinery Advanced Analysis Program

# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**GMC GMC2500**

Component  
**Diesel Engine**

Fluid  
**TRC PRO-SPEC IV XP SYN BLEND 15W40 (10 LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR02620735	TR02590825	TR02475416
Sample Date		Client Info		22 Feb 2024	13 Oct 2023	18 Feb 2022
Machine Age	kms	Client Info		160000	165000	62000
Oil Age	kms	Client Info		20000	20000	17000
Filter Age	kms	Client Info		20000	20000	17000
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	22	▲ 108	33
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	<1
Aluminum	ppm	ASTM D5185(m)	>20	5	3	3
Lead	ppm	ASTM D5185(m)	>40	1	2	6
Copper	ppm	ASTM D5185(m)	>330	2	3	182
Tin	ppm	ASTM D5185(m)	>15	<1	<1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0

## CONTAMINATION

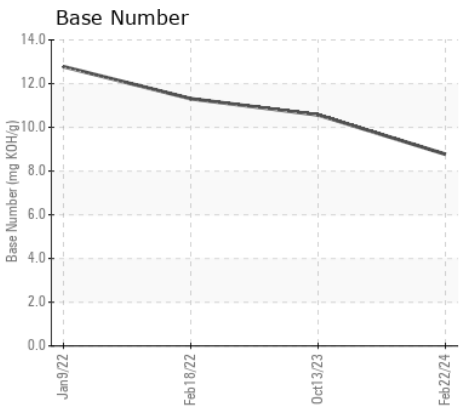
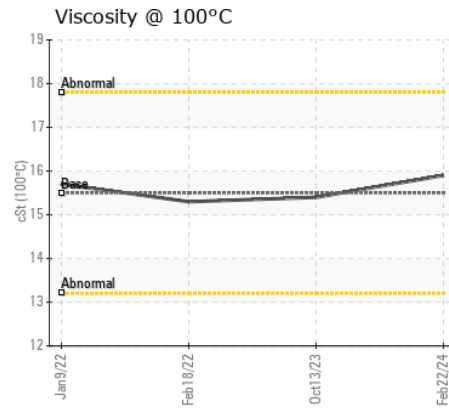
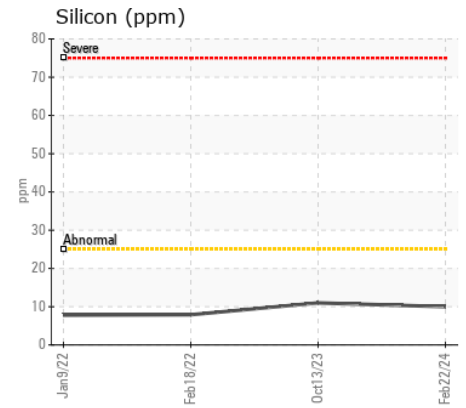
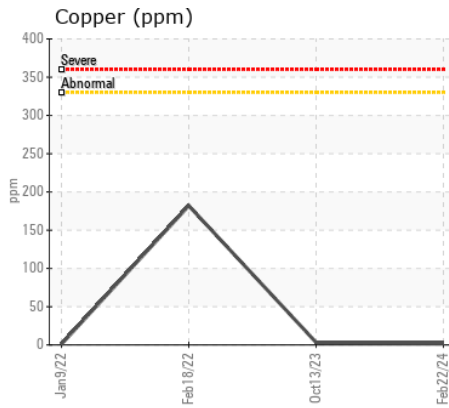
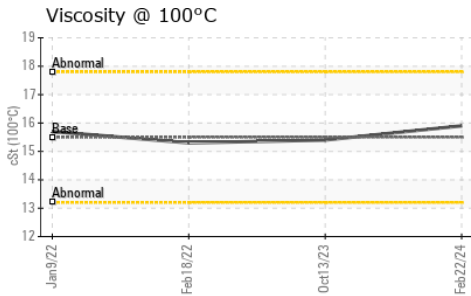
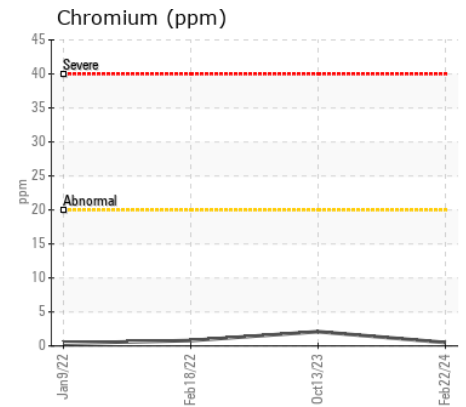
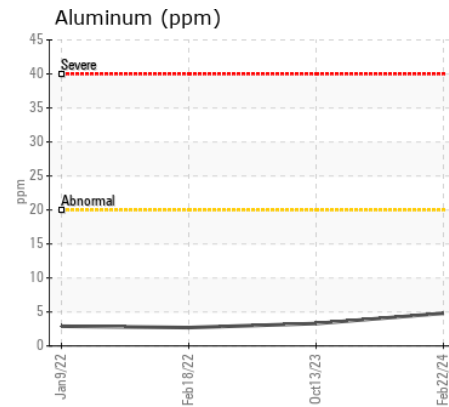
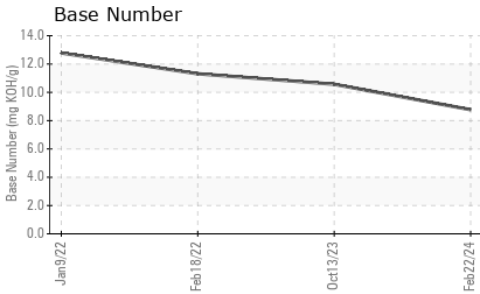
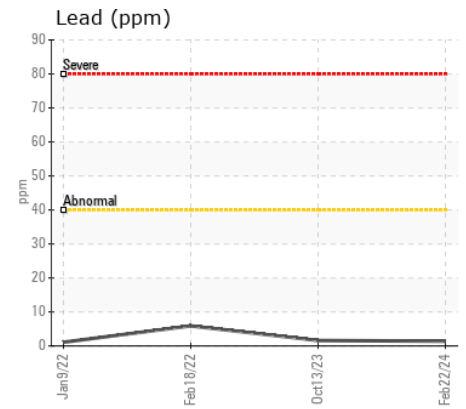
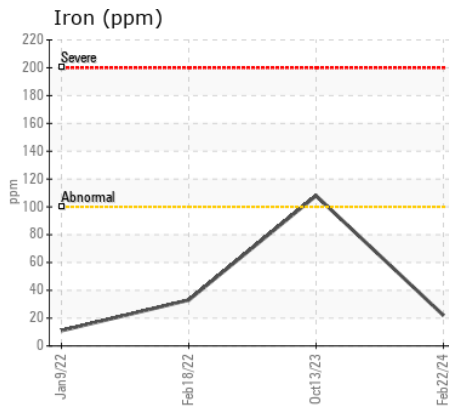
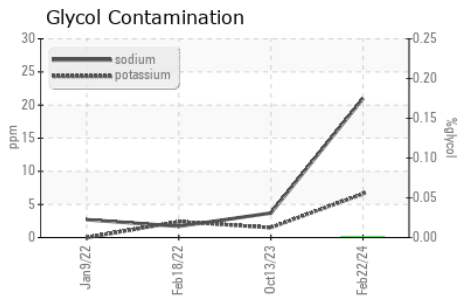
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	10	11	8
Potassium	ppm	ASTM D5185(m)	>20	7	2	2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	1	0.5
Nitration	Abs/cm	ASTM D7624*	>20	9.5	14.3	12.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.1	26.9	22.8
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)		21	4	2
Boron	ppm	ASTM D5185(m)		4	2	2
Barium	ppm	ASTM D5185(m)		0	<1	0
Molybdenum	ppm	ASTM D5185(m)		<1	0	1
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		26	17	31
Calcium	ppm	ASTM D5185(m)		4183	4295	3860
Phosphorus	ppm	ASTM D5185(m)		864	830	824
Zinc	ppm	ASTM D5185(m)		989	943	936
Sulfur	ppm	ASTM D5185(m)		3373	3058	2973
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.0	21.9	15.9
Base Number (BN)	mg KOH/g	ASTM D2896*		8.77	10.57	11.31
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	15.9	15.4	15.3



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : TR02620735 **Received** : 08 Mar 2024  
**Lab Number** : **02620735** **Tested** : 11 Mar 2024  
**Unique Number** : 5737845 **Diagnosed** : 11 Mar 2024 - Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: Glycol )

**DELCO COLONY**  
 BOX # 39  
 NEW DAYTON, AB  
 CA T0K 1P0  
 Contact: Peter  
 vfcserv@telus.net  
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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)