



TRAAP

Texas Refinery Advanced Analysis Program

# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	NORMAL

Machine Id  
**GMC 946IDT**  
 Component  
**Gasoline Engine**  
 Fluid  
**TRC PRO-SPEC SYNTHETIC 5W30 (5 LTR)**

## RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

## WEAR

All component wear rates are normal.

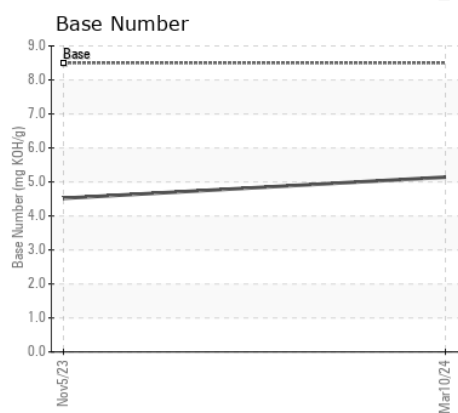
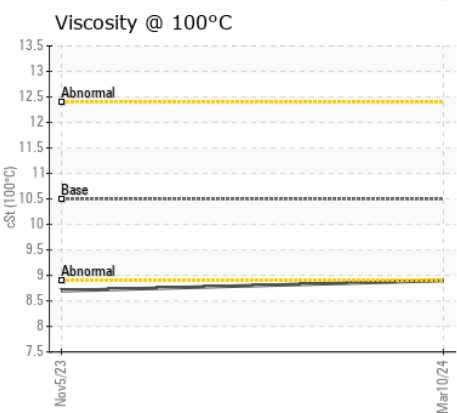
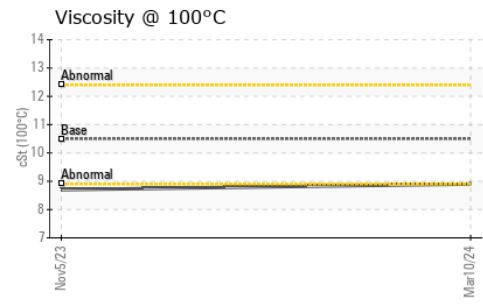
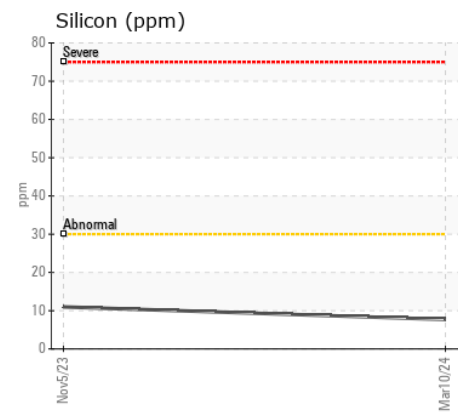
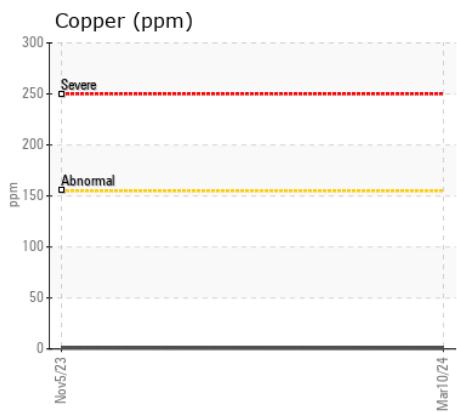
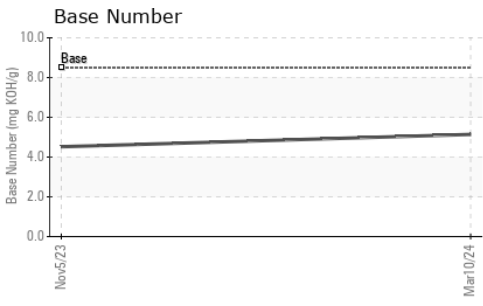
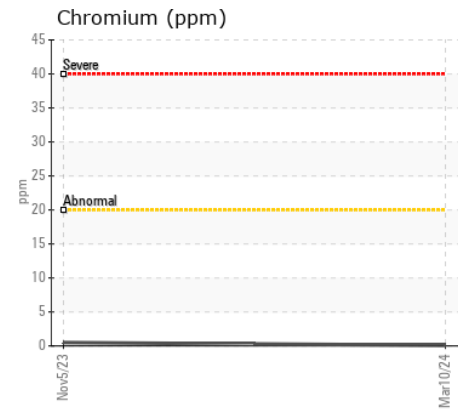
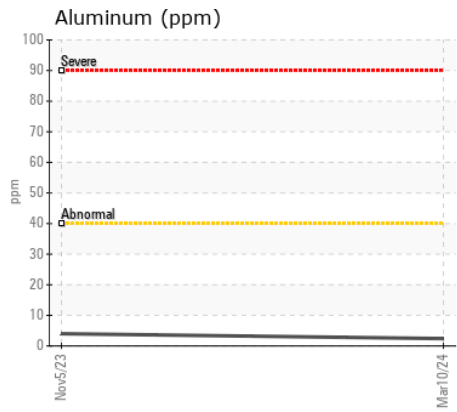
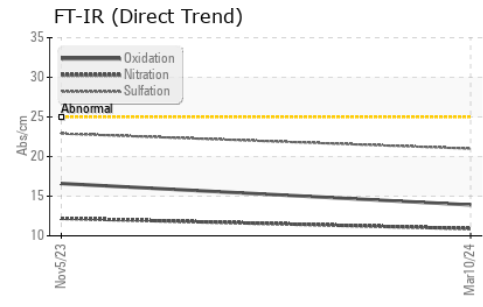
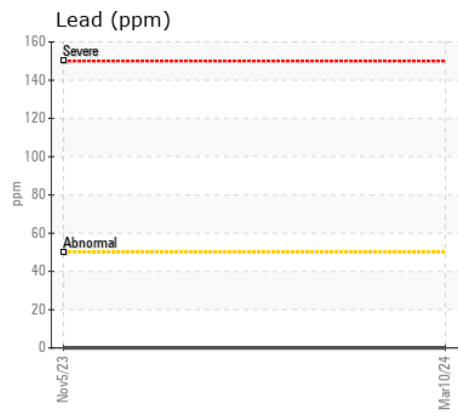
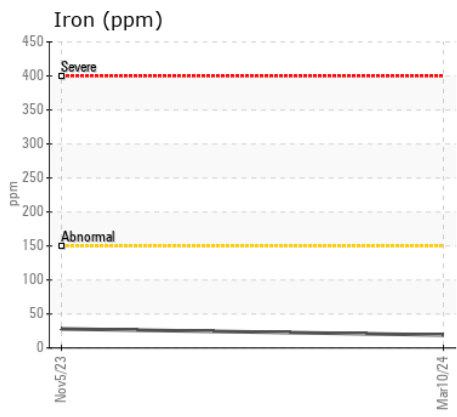
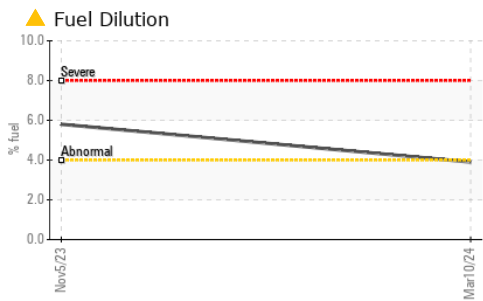
## CONTAMINATION

Light fuel dilution occurring. No other contaminants were detected 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		TR02631582	TR02596514	---
Sample Date		Client Info		10 Mar 2024	05 Nov 2023	---
Machine Age	kms	Client Info		282549	278659	---
Oil Age	kms	Client Info		4100	8108	---
Filter Age	kms	Client Info		4100	8108	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				MARGINAL	ABNORMAL	---
<hr/>						
Iron	ppm	ASTM D5185(m)	>150	19	28	---
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>5	0	0	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>2	0	0	---
Aluminum	ppm	ASTM D5185(m)	>40	2	4	---
Lead	ppm	ASTM D5185(m)	>50	0	0	---
Copper	ppm	ASTM D5185(m)	>155	<1	1	---
Tin	ppm	ASTM D5185(m)	>10	0	0	---
Vanadium	ppm	ASTM D5185(m)		<1	<1	---
<hr/>						
Silicon	ppm	ASTM D5185(m)	>30	8	11	---
Potassium	ppm	ASTM D5185(m)	>20	<1	0	---
Fuel	%	ASTM D7593*	>4.0	▲ 3.9	▲ 5.8	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*		0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	10.9	12.2	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.0	22.9	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---
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Sodium	ppm	ASTM D5185(m)	>400	2	<1	---
Boron	ppm	ASTM D5185(m)		70	47	---
Barium	ppm	ASTM D5185(m)		0	<1	---
Molybdenum	ppm	ASTM D5185(m)	400	93	116	---
Manganese	ppm	ASTM D5185(m)		<1	0	---
Magnesium	ppm	ASTM D5185(m)	600	418	444	---
Calcium	ppm	ASTM D5185(m)	1500	1300	1320	---
Phosphorus	ppm	ASTM D5185(m)	800	702	659	---
Zinc	ppm	ASTM D5185(m)	900	733	739	---
Sulfur	ppm	ASTM D5185(m)		2307	1938	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.9	16.6	---
Base Number (BN)	mg KOH/g	ASTM D2896*	8.5	5.14	4.52	---
Visc @ 100°C	cSt	ASTM D7279(m)	10.5	8.9	▲ 8.7	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : TR02631582 **Received** : 26 Apr 2024  
**Lab Number** : 02631582 **Tested** : 29 Apr 2024  
**Unique Number** : 5772735 **Diagnosed** : 29 Apr 2024 - Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: PercentFuel )

**PAT LEITH**  
 1686 BADER CRESCENT  
 SASKATOON, SK  
 CA S7M 3V3  
 Contact: PAT

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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