



TRAAP

Texas Refinery Advanced Analysis Program

# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**PONTIAC 290CTC**  
 Component  
**Front Gasoline Engine**  
 Fluid  
**TRC PRO-SPEC MULTI VISC 5W30 (5 LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>TR02633734</b>	TR02606537	TR02568224
Sample Date		Client Info		<b>29 Apr 2024</b>	15 Dec 2023	26 Jun 2023
Machine Age	kms	Client Info		<b>350002</b>	340748	333852
Oil Age	kms	Client Info		<b>15685</b>	6431	9956
Filter Age	kms	Client Info		<b>15685</b>	6431	9956
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Filter Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>150	<b>30</b>	10	24
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>40	<b>4</b>	3	4
Lead	ppm	ASTM D5185(m)	>50	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>155	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

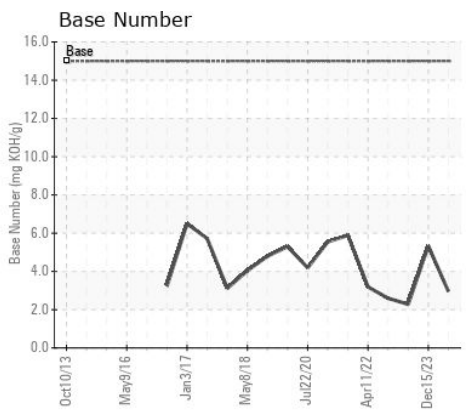
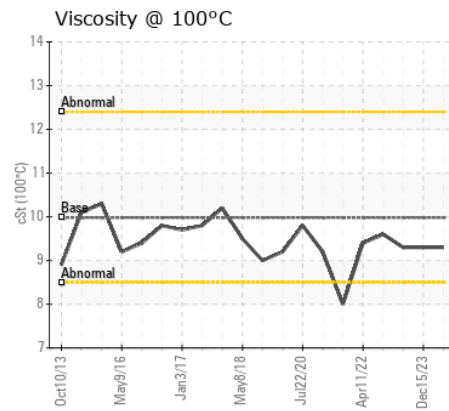
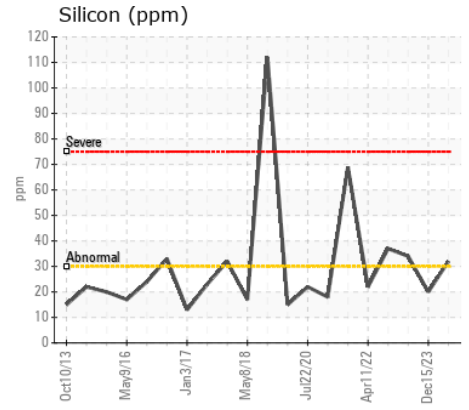
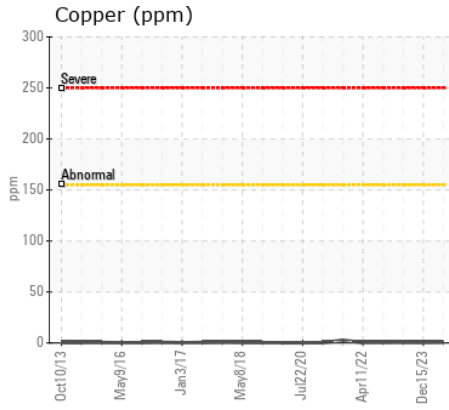
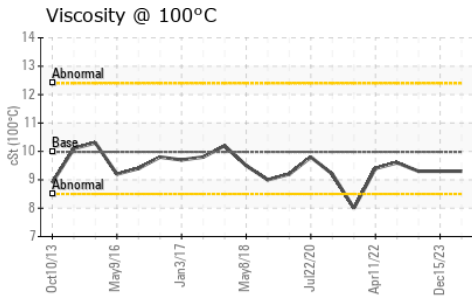
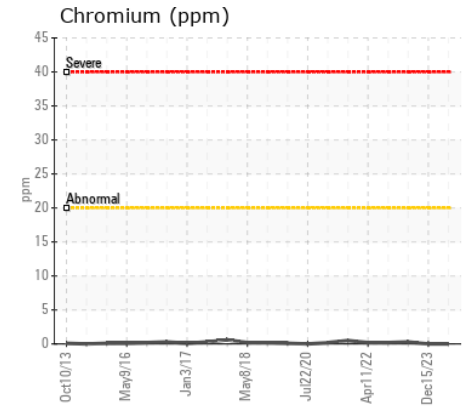
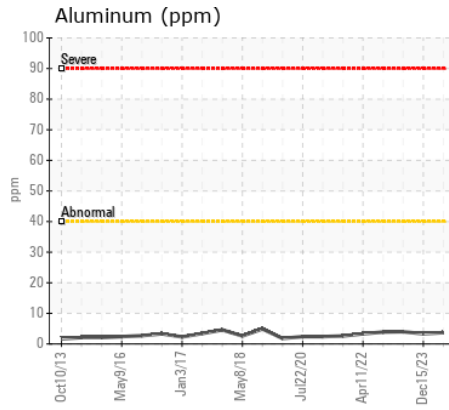
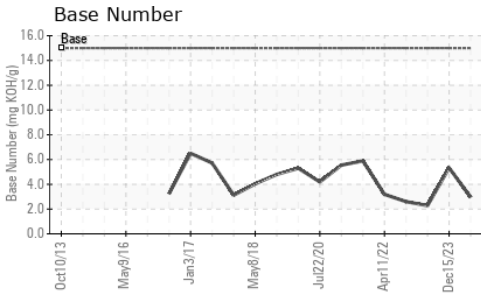
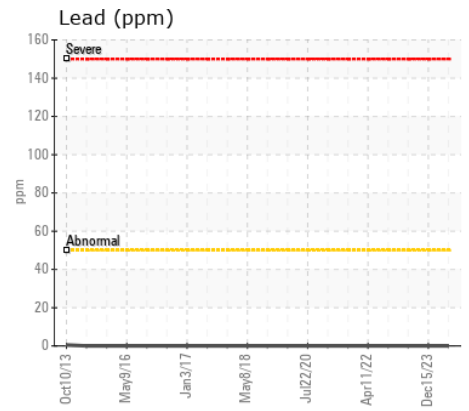
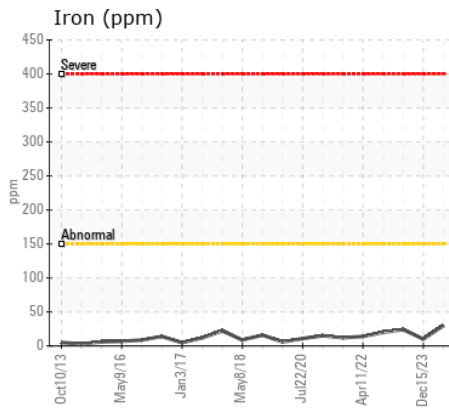
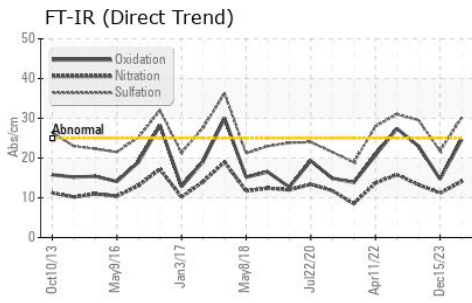
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	<b>32</b>	20	▲ 34
Potassium	ppm	ASTM D5185(m)	>20	<b>5</b>	0	2
Fuel		WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>14.1</b>	11.2	13.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>30.1</b>	21.8	29.5
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	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)	>400	<b>10</b>	4	6
Boron	ppm	ASTM D5185(m)		<b>30</b>	67	31
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>95</b>	91	208
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185(m)		<b>512</b>	487	506
Calcium	ppm	ASTM D5185(m)	4200	<b>1245</b>	1195	1231
Phosphorus	ppm	ASTM D5185(m)	800	<b>648</b>	680	720
Zinc	ppm	ASTM D5185(m)	800	<b>725</b>	701	750
Sulfur	ppm	ASTM D5185(m)		<b>2365</b>	2614	2716
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>24.6</b>	14.7	23.0
Base Number (BN)	mg KOH/g	ASTM D2896*	15	<b>2.96</b>	5.33	2.28
Visc @ 100°C	cSt	ASTM D7279(m)	9.98	<b>9.3</b>	9.3	9.3



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : TR02633734  
**Lab Number** : 02633734  
**Unique Number** : 5774887  
**Test Package** : MOB 2  
**Received** : 06 May 2024  
**Tested** : 07 May 2024  
**Diagnosed** : 07 May 2024 - Kevin Marson

**BJORN VORS**  
 109-212 LA RONGE RD  
 SASKATOON, SK  
 CA S7K 8E5  
 Contact: Bjorn

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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F: