



TRAAP

Texas Refinery Advanced Analysis Program

# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**ALTOZ TRX 766I XT723967**

Component  
**Gasoline Engine**

Fluid  
**TRC PRO-SPEC IV XP SYN BLEND SAE 10W30 (2 QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06218922	TR05882855	---
Sample Date		Client Info		18 Jun 2024	11 May 2023	---
Machine Age	hrs	Client Info		291	169	---
Oil Age	hrs	Client Info		196	70	---
Filter Age	hrs	Client Info		196	70	---
Oil Changed		Client Info		Not Changd	Changed	---
Filter Changed		Client Info		Not Changd	Changed	---
Sample Status				NORMAL	NORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	13	18	---
Chromium	ppm	ASTM D5185m	>20	1	<1	---
Nickel	ppm	ASTM D5185m	>5	<1	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>2	<1	0	---
Aluminum	ppm	ASTM D5185m	>40	4	4	---
Lead	ppm	ASTM D5185m	>50	2	4	---
Copper	ppm	ASTM D5185m	>155	5	7	---
Tin	ppm	ASTM D5185m	>10	<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

## CONTAMINATION

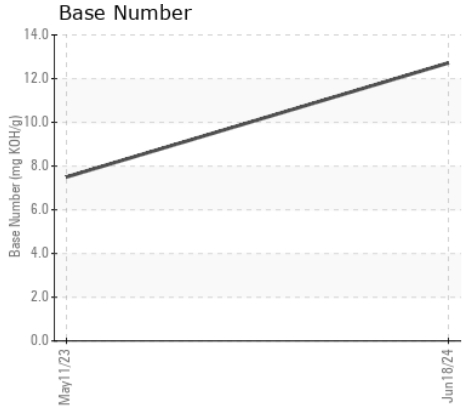
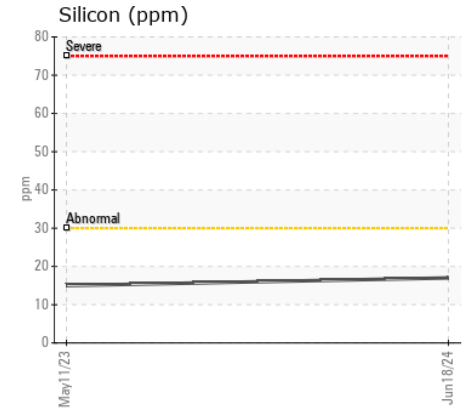
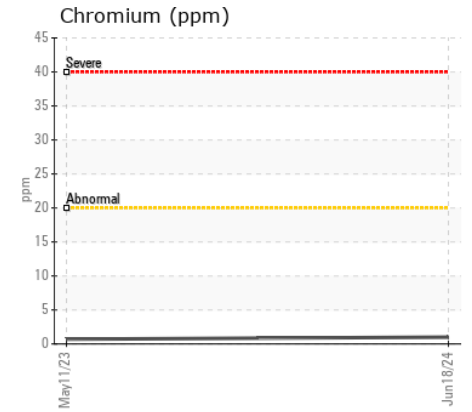
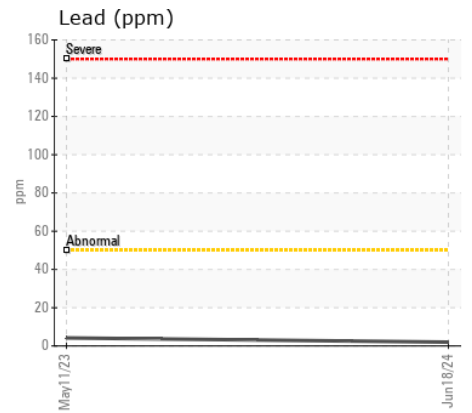
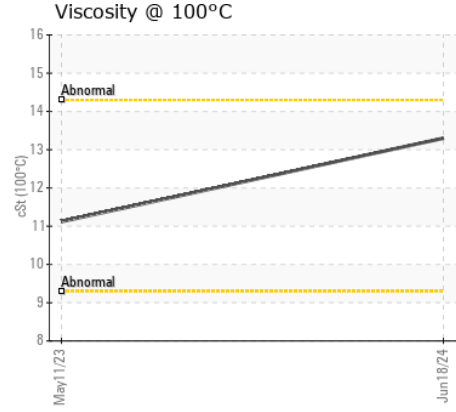
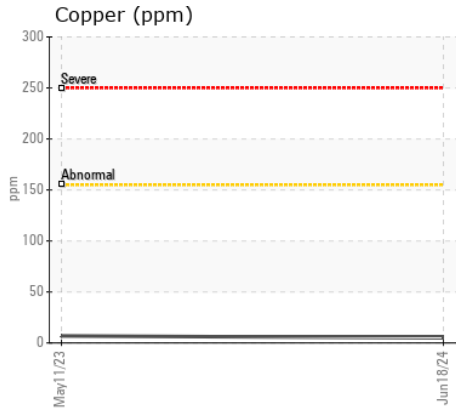
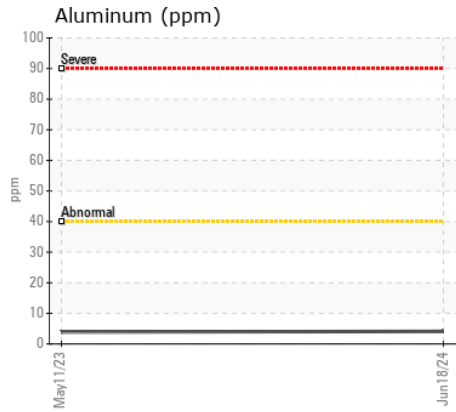
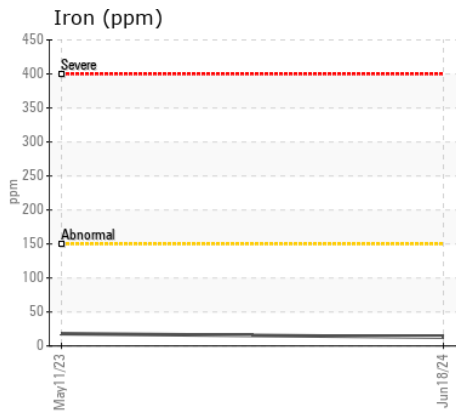
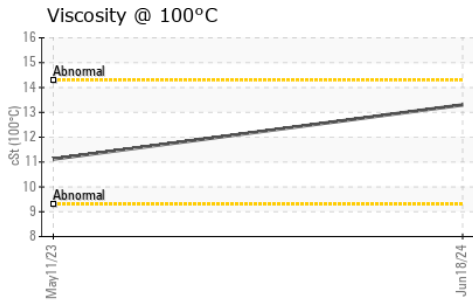
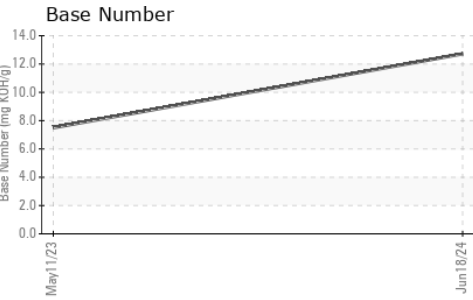
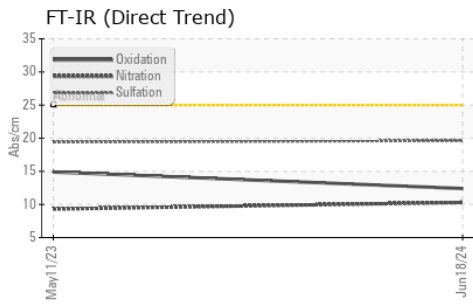
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	17	15	---
Potassium	ppm	ASTM D5185m	>20	4	2	---
Fuel		WC Method	>4.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844		0.1	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	10.3	9.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	19.4	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
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 D5185m	>400	1	0	---
Boron	ppm	ASTM D5185m		10	83	---
Barium	ppm	ASTM D5185m		1	0	---
Molybdenum	ppm	ASTM D5185m		16	72	---
Manganese	ppm	ASTM D5185m		1	<1	---
Magnesium	ppm	ASTM D5185m		133	600	---
Calcium	ppm	ASTM D5185m		4066	1444	---
Phosphorus	ppm	ASTM D5185m		874	710	---
Zinc	ppm	ASTM D5185m		976	889	---
Sulfur	ppm	ASTM D5185m		3609	2178	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.4	14.9	---
Base Number (BN)	mg KOH/g	ASTM D2896		12.72	7.5	---
Visc @ 100°C	cSt	ASTM D445		13.3	11.12	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR06218922  
**Lab Number** : 06218922  
**Unique Number** : 11097119  
**Test Package** : MOB 2

**Received** : 24 Jun 2024  
**Tested** : 25 Jun 2024  
**Diagnosed** : 25 Jun 2024 - Wes Davis

**LEBANON MUNICIPAL AIRPORT**  
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 Contact: SCOTT CAREY  
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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)

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F: