



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
19
 Component
1 Differential
 Fluid
NOT GIVEN (5 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR0001554	TR0001460	---
Sample Date		Client Info		17 Jun 2024	23 Feb 2024	---
Machine Age	hrs	Client Info		1522	651	---
Oil Age	hrs	Client Info		1522	651	---
Filter Age	hrs	Client Info		0	651	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		N/A	Not Changd	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	122	90	---
Chromium	ppm	ASTM D5185m	>10	1	2	---
Nickel	ppm	ASTM D5185m	>10	0	<1	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	1	<1	---
Lead	ppm	ASTM D5185m	>25	0	0	---
Copper	ppm	ASTM D5185m	>100	33	28	---
Tin	ppm	ASTM D5185m	>10	0	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

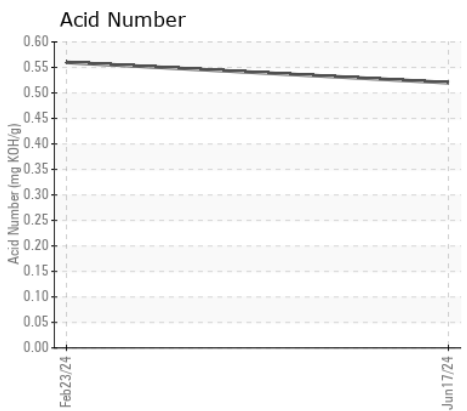
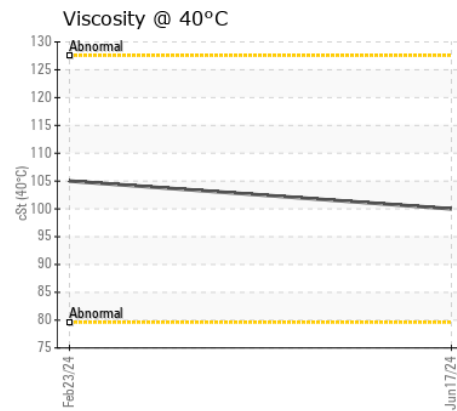
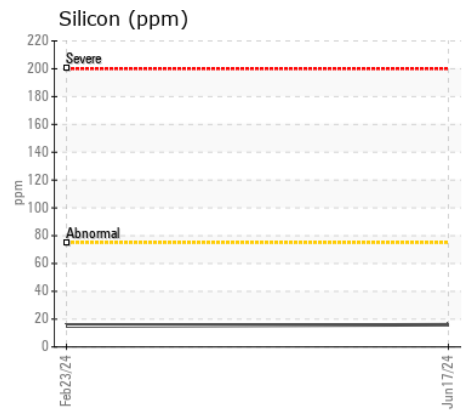
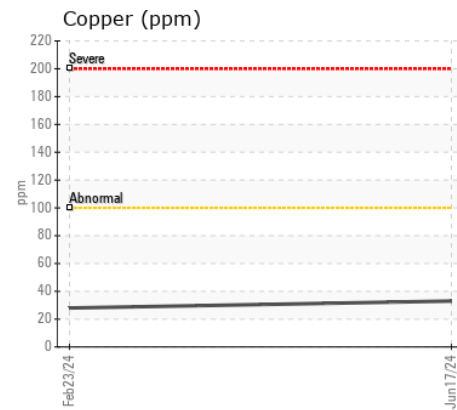
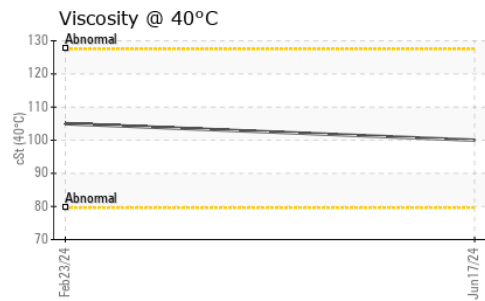
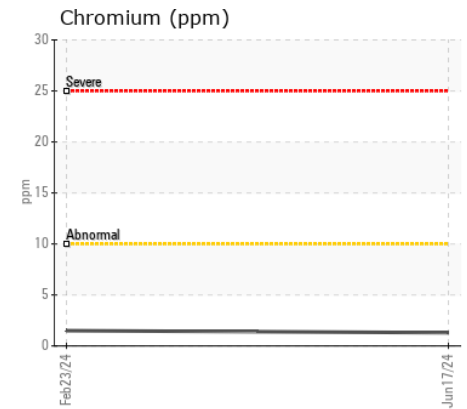
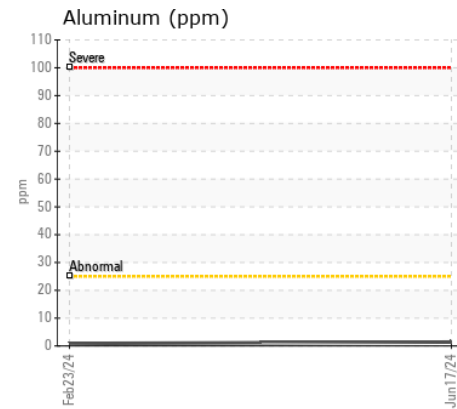
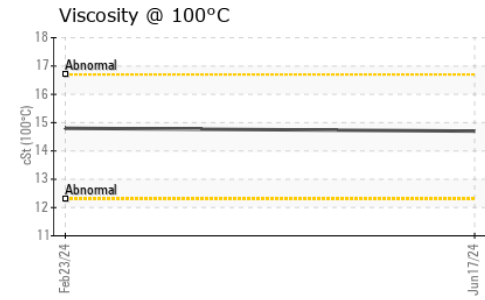
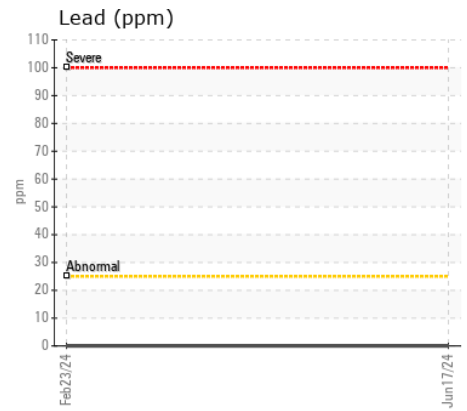
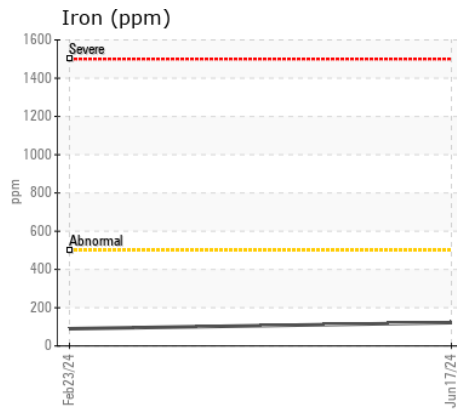
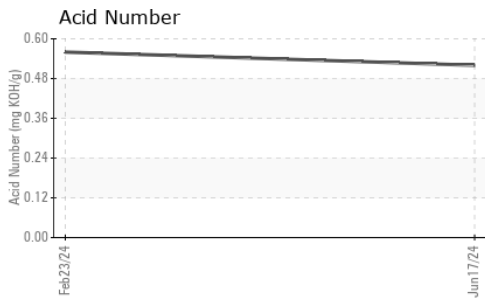
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	16	15	---
Potassium	ppm	ASTM D5185m	>20	2	0	---
Water		WC Method	>.2	NEG	NEG	---
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	>.2	NEG	NEG	---

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		10	2	---
Boron	ppm	ASTM D5185m		69	60	---
Barium	ppm	ASTM D5185m		2	2	---
Molybdenum	ppm	ASTM D5185m		0	0	---
Manganese	ppm	ASTM D5185m		19	18	---
Magnesium	ppm	ASTM D5185m		182	194	---
Calcium	ppm	ASTM D5185m		9	11	---
Phosphorus	ppm	ASTM D5185m		1732	1762	---
Zinc	ppm	ASTM D5185m		10	9	---
Sulfur	ppm	ASTM D5185m		27120	25597	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.52	0.56	---
Visc @ 40°C	cSt	ASTM D445		100	105	---
Visc @ 100°C	cSt	ASTM D445		14.7	14.8	---
Viscosity Index (VI)	Scale	ASTM D2270		152	146	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : TR0001554

Lab Number : 06236236

Unique Number : 11125070

Test Package : MOB 2 (Additional Tests: KV100, VI)

Received : 15 Jul 2024

Tested : 16 Jul 2024

Diagnosed : 16 Jul 2024 - Wes Davis

S S CONCRETE MATERIALS LLC

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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)