



TRAAP

Texas Refinery Advanced Analysis Program

# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id

**87**

Component

**3 Differential**

Fluid

**TRC MOLY ULTRA-TEC GEAR OIL 85W140 (10 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR0001450	TR0001142	TR0000842
Sample Date		Client Info		23 Feb 2024	24 Oct 2023	19 Jun 2023
Machine Age	hrs	Client Info		6702	5899	5245
Oil Age	hrs	Client Info		6702	5899	5245
Filter Age	hrs	Client Info		0	5899	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	None	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	56	54	84
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	2	3	3
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	0	0
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	0	<1	<1
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

## CONTAMINATION

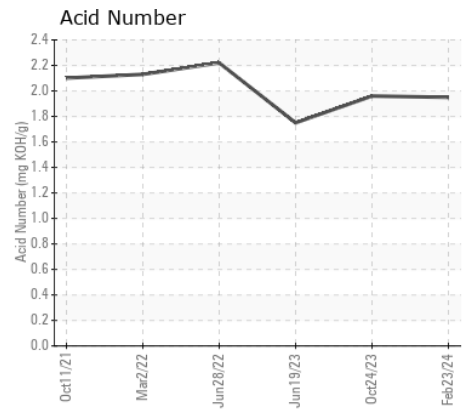
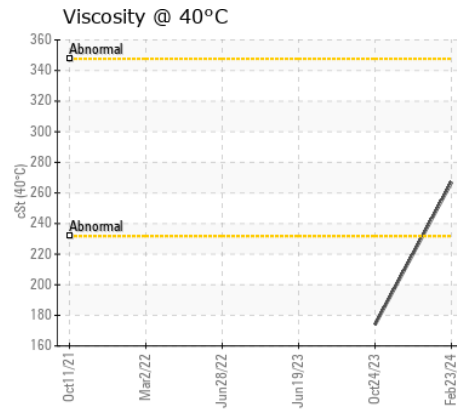
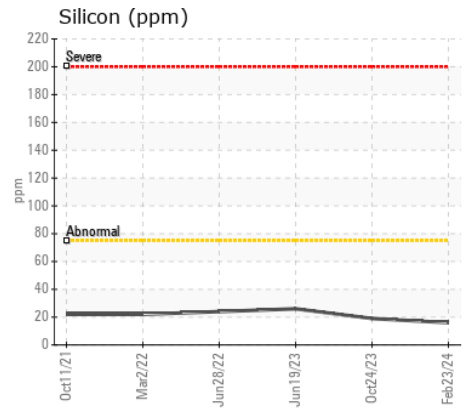
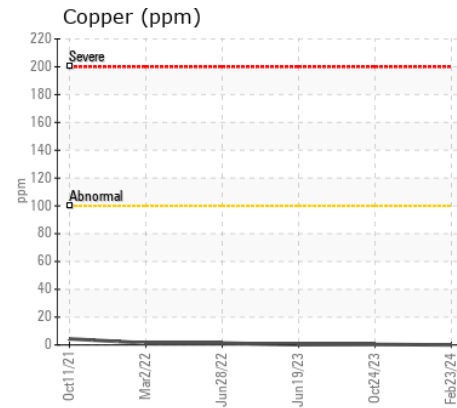
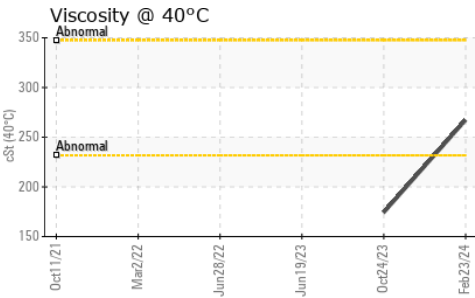
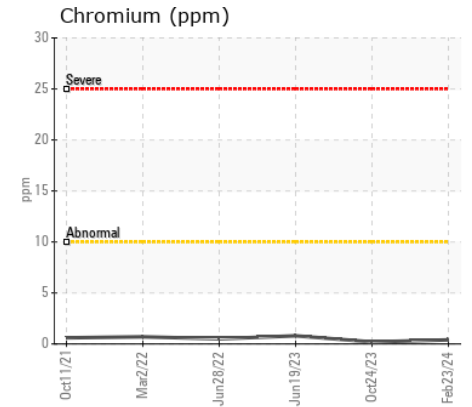
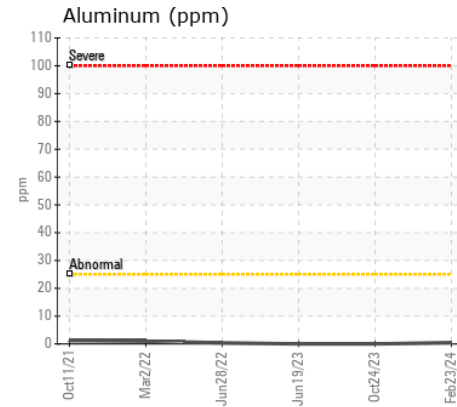
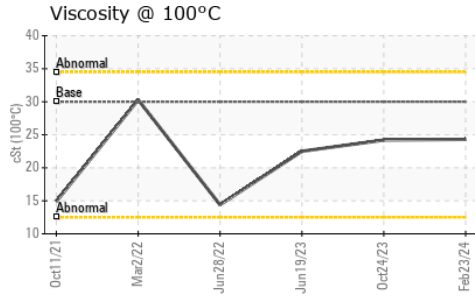
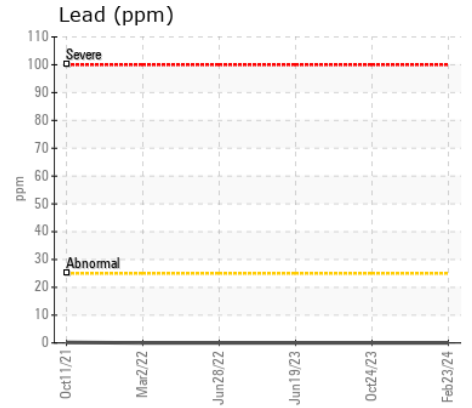
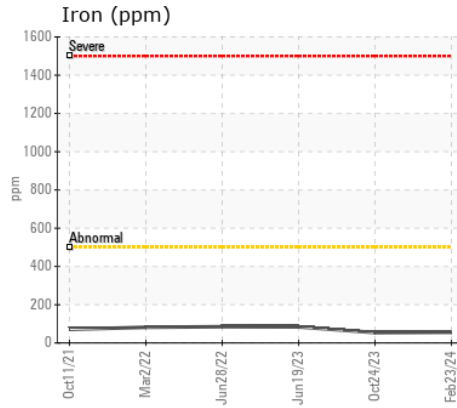
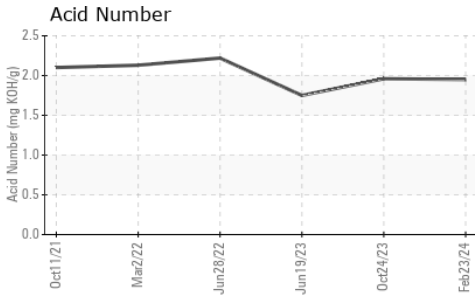
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	16	19	26
Potassium	ppm	ASTM D5185m	>20	0	1	<1
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	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		0	3	2
Boron	ppm	ASTM D5185m		256	326	305
Barium	ppm	ASTM D5185m		<1	0	<1
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		3	3	5
Magnesium	ppm	ASTM D5185m		1	0	1
Calcium	ppm	ASTM D5185m		10	8	13
Phosphorus	ppm	ASTM D5185m		1093	1055	1184
Zinc	ppm	ASTM D5185m		<1	5	0
Sulfur	ppm	ASTM D5185m		21164	19628	26030
Acid Number (AN)	mg KOH/g	ASTM D8045		1.95	1.96	1.75
Visc @ 40°C	cSt	ASTM D445		267	174	---
Visc @ 100°C	cSt	ASTM D445	30	24.3	24.2	22.5
Viscosity Index (VI)	Scale	ASTM D2270	105	115	170	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR0001450  
**Lab Number** : 06101103  
**Unique Number** : 10899333  
**Test Package** : MOB 2 ( Additional Tests: KV100, VI)

**Received** : 26 Feb 2024  
**Tested** : 27 Feb 2024  
**Diagnosed** : 27 Feb 2024 - Doug Bogart

**S S CONCRETE MATERIALS LLC**  
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 US 86439  
 Contact: SERVICE MANAGER  
 snsmaterials1@gmail.com

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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