



TRAAP

Texas Refinery Advanced Analysis Program

# OIL ANALYSIS REPORT

WEAR	<b>ABNORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id

**T13**

Component

**1 Differential**

Fluid

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

## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>TR0001370</b>	TR0001255	TR0000798
Sample Date		Client Info		<b>09 Jan 2024</b>	03 Oct 2023	10 Apr 2023
Machine Age	hrs	Client Info		<b>5342</b>	5045	4268
Oil Age	hrs	Client Info		<b>5342</b>	5045	4268
Filter Age	hrs	Client Info		<b>0</b>	5045	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>N/A</b>	None	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR

Bearing and/or bushing wear is indicated. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>157</b>	155	82
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	1	0
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>9</b>	8	<1
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>100	<b>▲ 109</b>	▲ 102	▲ 193
Tin	ppm	ASTM D5185m	>10	<b>1</b>	1	2
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

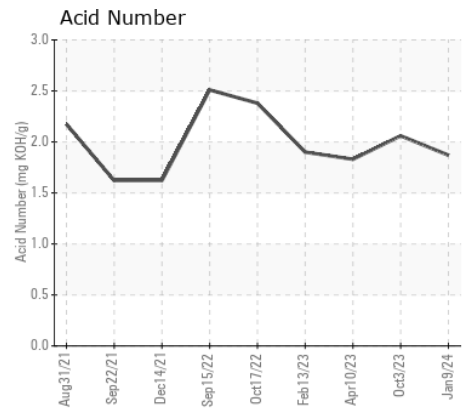
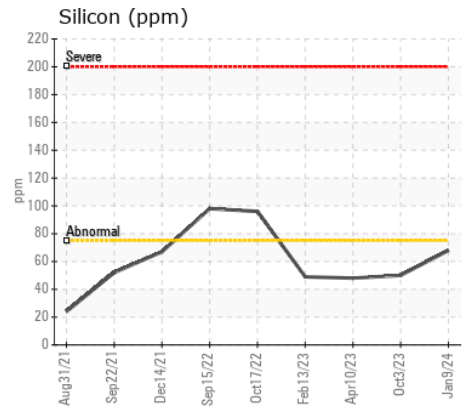
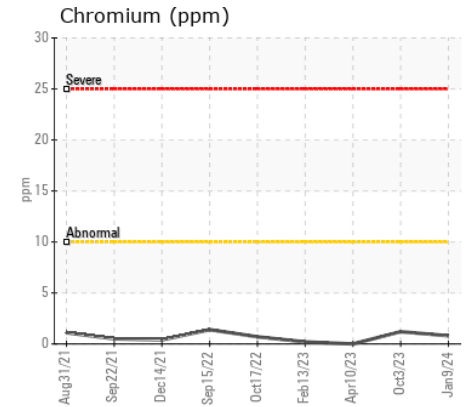
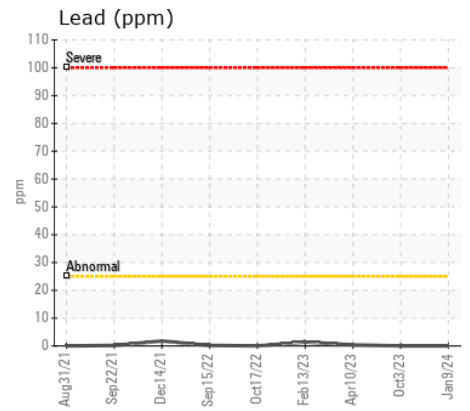
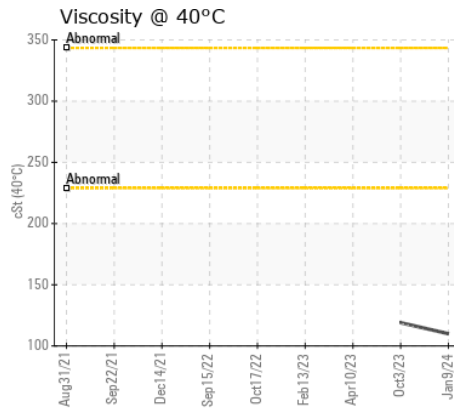
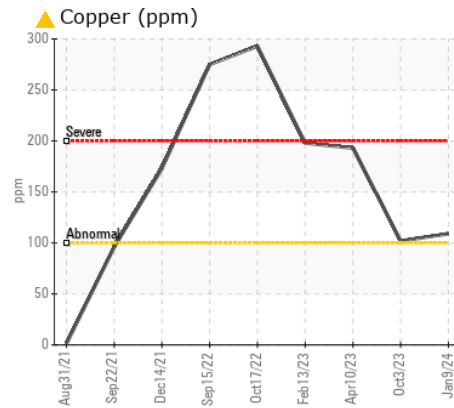
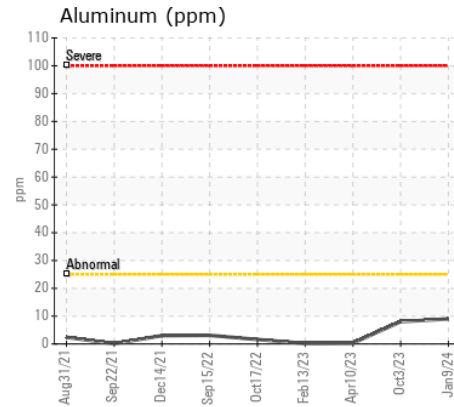
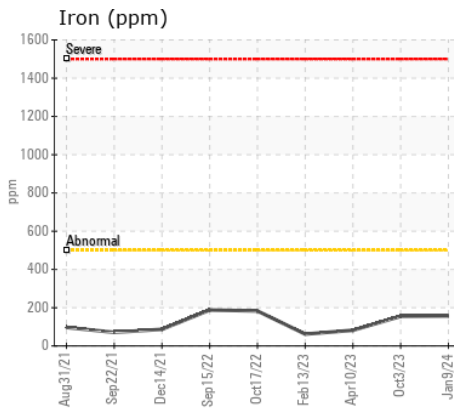
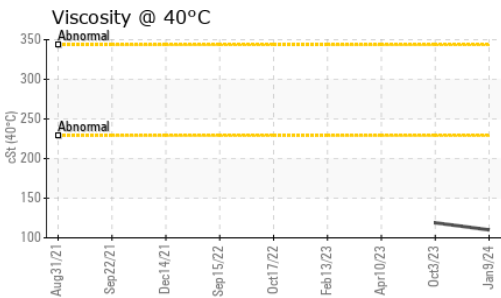
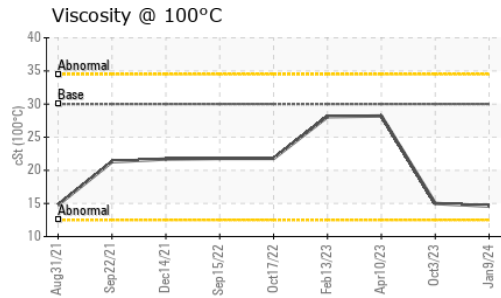
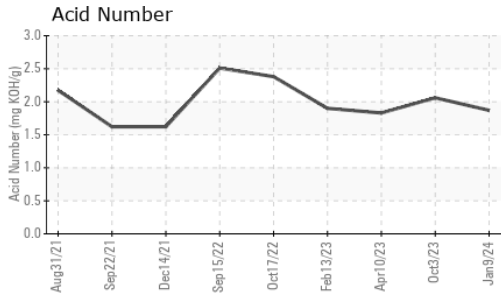
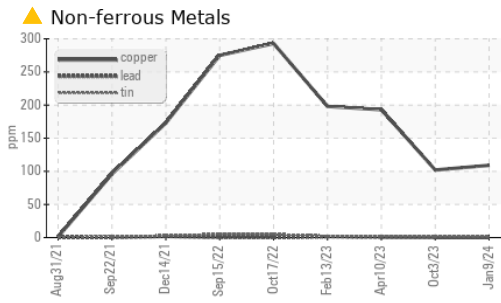
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>68</b>	50	48
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	2	0
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	<b>NEG</b>	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		<b>2</b>	<1	<1
Boron	ppm	ASTM D5185m		<b>214</b>	226	204
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>4</b>	4	4
Magnesium	ppm	ASTM D5185m		<b>4</b>	5	4
Calcium	ppm	ASTM D5185m		<b>58</b>	51	27
Phosphorus	ppm	ASTM D5185m		<b>1450</b>	1341	893
Zinc	ppm	ASTM D5185m		<b>9</b>	16	0
Sulfur	ppm	ASTM D5185m		<b>23492</b>	28209	20575
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.87</b>	2.06	1.83
Visc @ 40°C	cSt	ASTM D445		<b>110</b>	119	---
Visc @ 100°C	cSt	ASTM D445	30	<b>14.6</b>	15.0	28.2
Viscosity Index (VI)	Scale	ASTM D2270	105	<b>136</b>	130	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR0001370 **Received** : 12 Jan 2024  
**Lab Number** : 06060369 **Diagnosed** : 16 Jan 2024  
**Unique Number** : 10831751 **Diagnostician** : Don Baldrige  
**Test Package** : MOB 2 ( Additional Tests: KV100, VI )

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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)