



TRAAP

Texas Refinery Advanced Analysis Program

# OIL ANALYSIS REPORT

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

Machine Id  
**3 - 3 DROP MILL**  
 Component  
**Gearbox**  
 Fluid  
**TRC 890 VARI-PURPOSE 85W140 (125 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06215906	---	---
Sample Date		Client Info		11 Jun 2024	---	---
Machine Age	yrs	Client Info		0	---	---
Oil Age	yrs	Client Info		0	---	---
Filter Age	yrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				<b>NORMAL</b>	---	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	60	---	---
Chromium	ppm	ASTM D5185m	>10	0	---	---
Nickel	ppm	ASTM D5185m	>10	0	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>25	2	---	---
Lead	ppm	ASTM D5185m	>50	1	---	---
Copper	ppm	ASTM D5185m	>200	3	---	---
Tin	ppm	ASTM D5185m	>10	0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

## CONTAMINATION

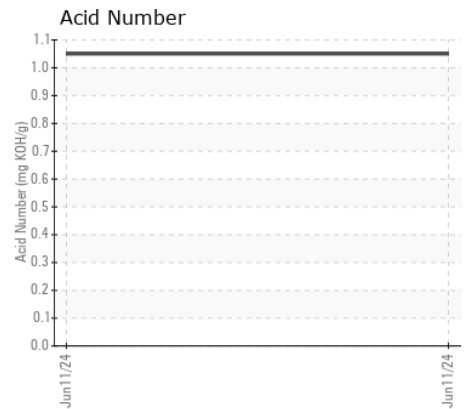
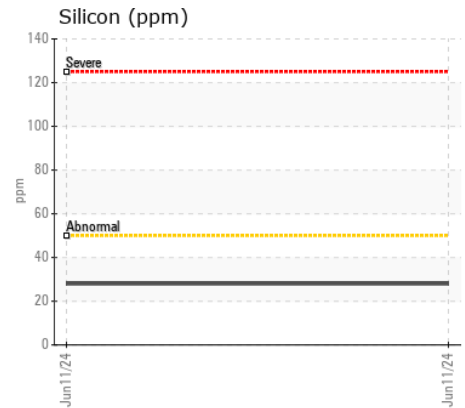
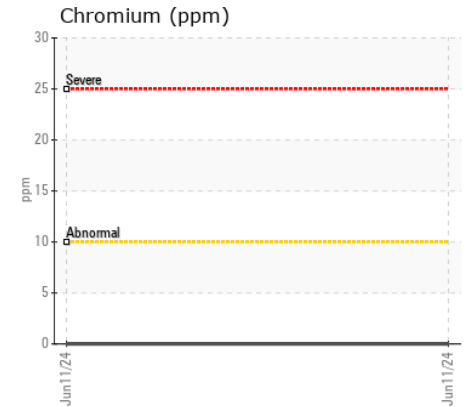
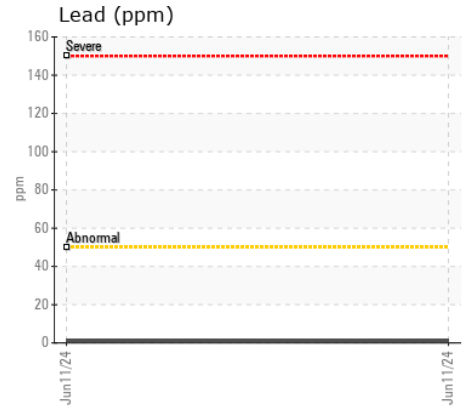
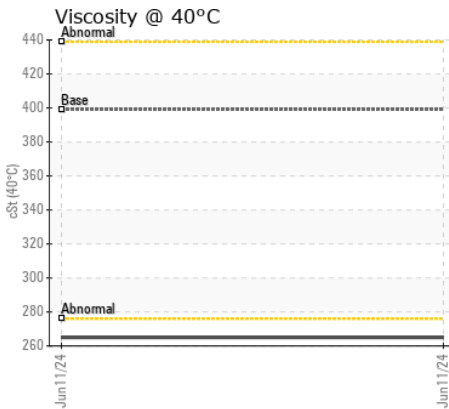
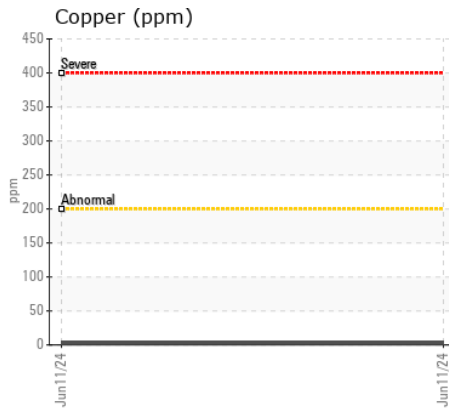
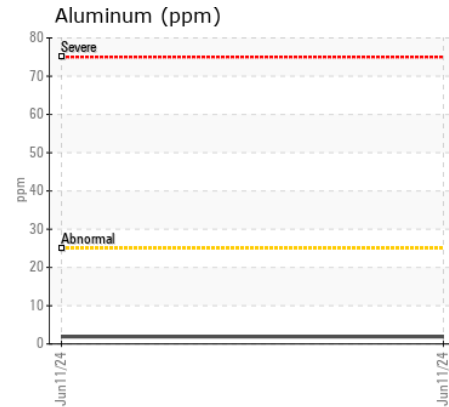
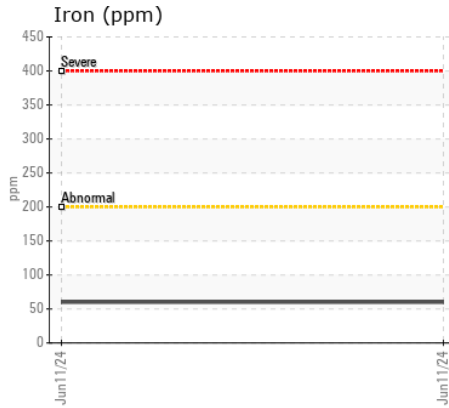
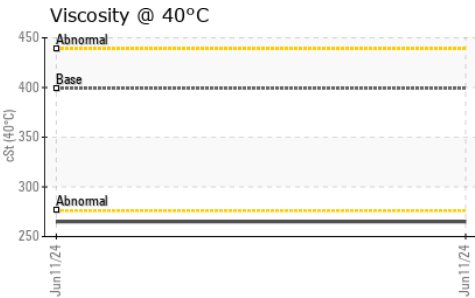
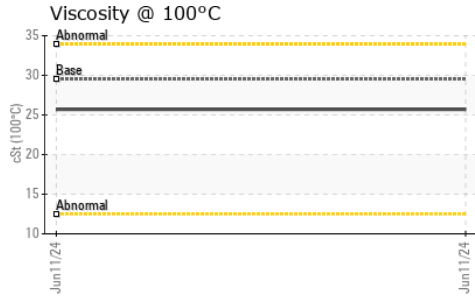
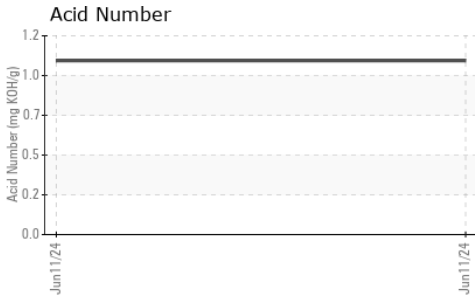
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	28	---	---
Potassium	ppm	ASTM D5185m	>20	0	---	---
Water		WC Method	>0.2	NEG	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	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		<1	---	---
Boron	ppm	ASTM D5185m		<1	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		<1	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m		<1	---	---
Calcium	ppm	ASTM D5185m		11	---	---
Phosphorus	ppm	ASTM D5185m		693	---	---
Zinc	ppm	ASTM D5185m		4	---	---
Sulfur	ppm	ASTM D5185m		19186	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		1.05	---	---
Visc @ 40°C	cSt	ASTM D445	399	265	---	---
Visc @ 100°C	cSt	ASTM D445	29.5	25.7	---	---
Viscosity Index (VI)	Scale	ASTM D2270		125	---	---



Certificate L2367

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

**Sample No.** : TR06215906

**Lab Number** : 06215906

**Unique Number** : 11088770

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

**Received** : 20 Jun 2024

**Tested** : 22 Jun 2024

**Diagnosed** : 23 Jun 2024 - Don Baldrige

**CARLSTAR GROUP - FORMERLY CARLISLE TIRE**

520 JD YARNELL IND. PKWY

CLINTON, TN

US 37716

Contact: JOHN GAINES

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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