



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
LEB REC 2

Component
Gearbox

Fluid
TRC MOLY ULTRA-TEC GEAR OIL 80W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR0687894	TR05936275	---
Sample Date		Client Info		15 May 2024	01 Jun 2023	---
Machine Age	yrs	Client Info		0	0	---
Oil Age	yrs	Client Info		2	1	---
Filter Age	yrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	21	11	---
Chromium	ppm	ASTM D5185m	>10	<1	0	---
Nickel	ppm	ASTM D5185m	>10	0	0	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		<1	<1	---
Aluminum	ppm	ASTM D5185m	>25	1	0	---
Lead	ppm	ASTM D5185m	>50	<1	0	---
Copper	ppm	ASTM D5185m	>200	<1	<1	---
Tin	ppm	ASTM D5185m	>10	<1	0	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

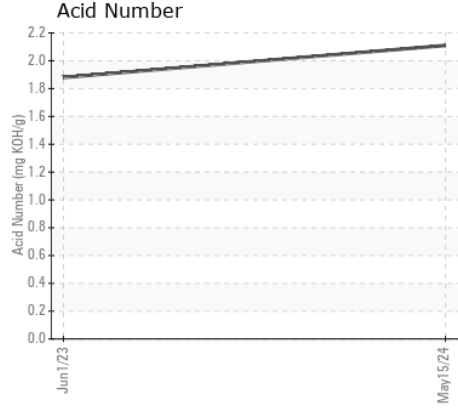
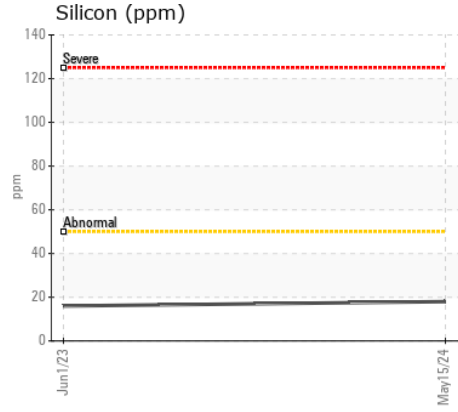
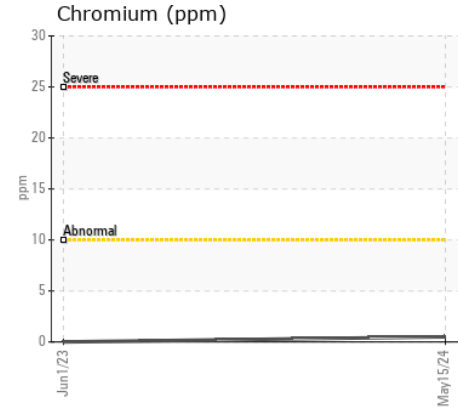
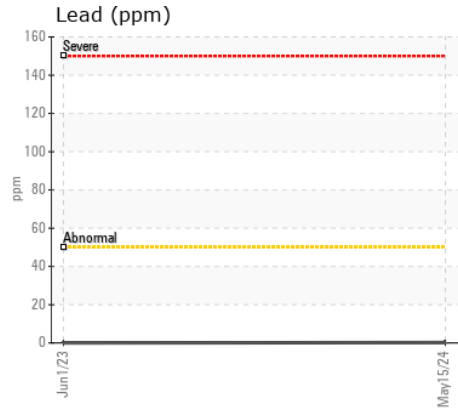
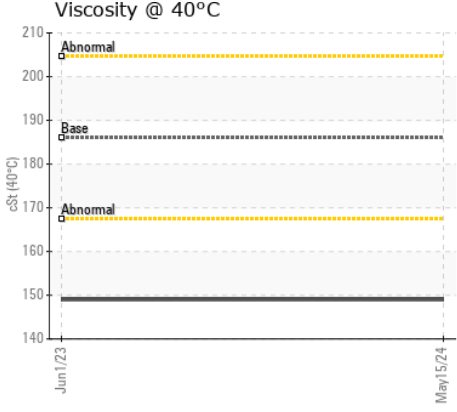
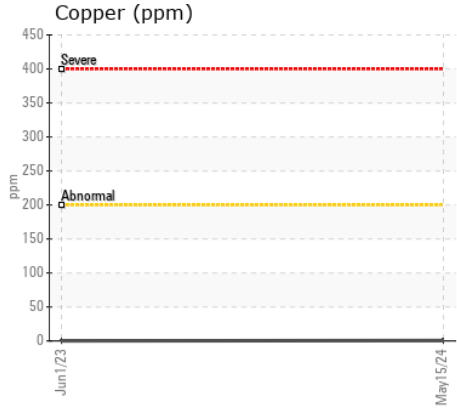
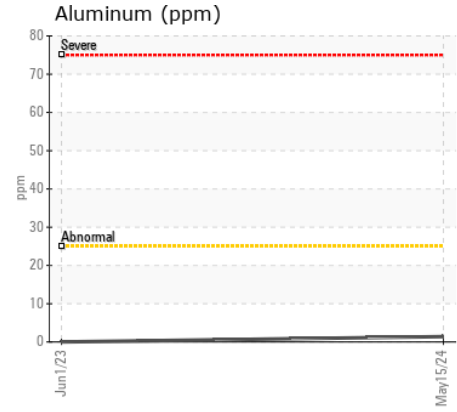
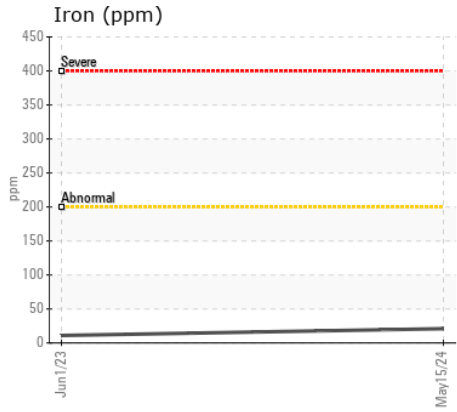
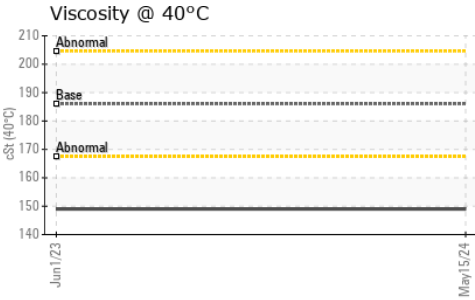
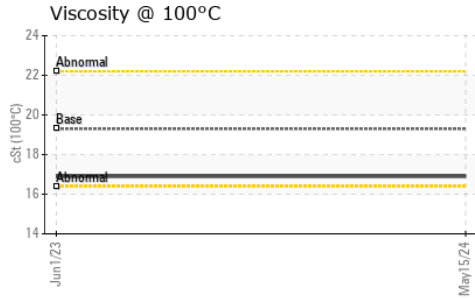
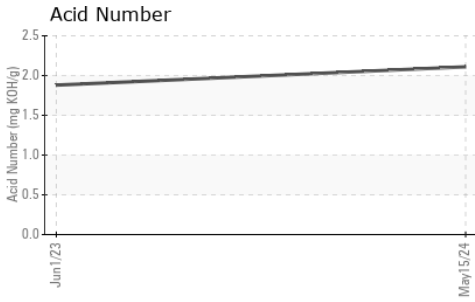
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	18	16	---
Potassium	ppm	ASTM D5185m	>20	2	<1	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	LIGHT	---
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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<1	1	---
Boron	ppm	ASTM D5185m		334	338	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		<1	0	---
Manganese	ppm	ASTM D5185m		0	<1	---
Magnesium	ppm	ASTM D5185m		<1	2	---
Calcium	ppm	ASTM D5185m		35	35	---
Phosphorus	ppm	ASTM D5185m		1151	1136	---
Zinc	ppm	ASTM D5185m		15	13	---
Sulfur	ppm	ASTM D5185m		23188	25056	---
Acid Number (AN)	mg KOH/g	ASTM D8045		2.11	1.88	---
Visc @ 40°C	cSt	ASTM D445	186	149	149	---
Visc @ 100°C	cSt	ASTM D445	19.3	16.9	16.9	---
Viscosity Index (VI)	Scale	ASTM D2270	125	122	122	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR0687894 **Received** : 22 May 2024
Lab Number : 06187894 **Tested** : 23 May 2024
Unique Number : 11044646 **Diagnosed** : 23 May 2024 - Wes Davis
Test Package : MOB 2 (Additional Tests: KV100, VI)

CHRIST BROTHERS PRODUCTS
 820 S FRITZ
 LEBANON, IL
 US 62254
 Contact: BRUCE COWELL

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: