



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**CATERPILLAR 972H L10 A7D01072**  
 Component  
**Rear Differential**  
 Fluid  
**TRC PRO-TAC IV 30 SAE 30W (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06189761	TR06170147	TR06101108
Sample Date		Client Info		17 May 2024	23 Apr 2024	21 Feb 2024
Machine Age	hrs	Client Info		12036	11874	11532
Oil Age	hrs	Client Info		0	342	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	83	92	76
Chromium	ppm	ASTM D5185m	>3	1	1	1
Nickel	ppm	ASTM D5185m	>3	3	3	2
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	6	6	6
Lead	ppm	ASTM D5185m	>13	<1	<1	<1
Copper	ppm	ASTM D5185m	>103	68	70	52
Tin	ppm	ASTM D5185m	>5	<1	<1	<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**

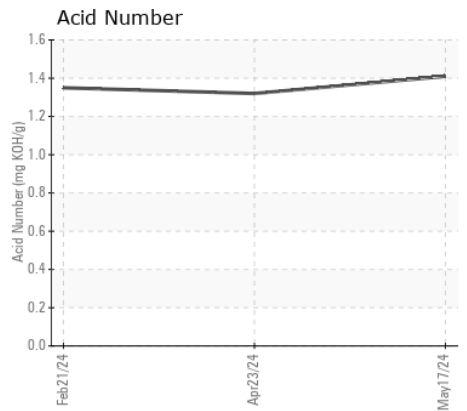
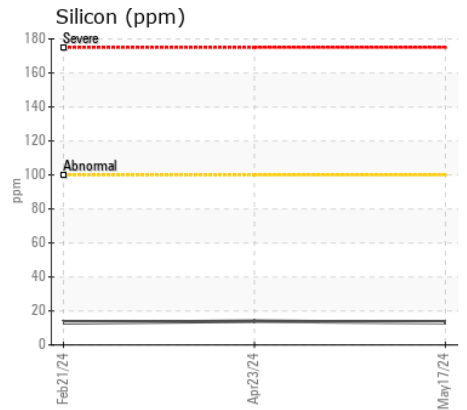
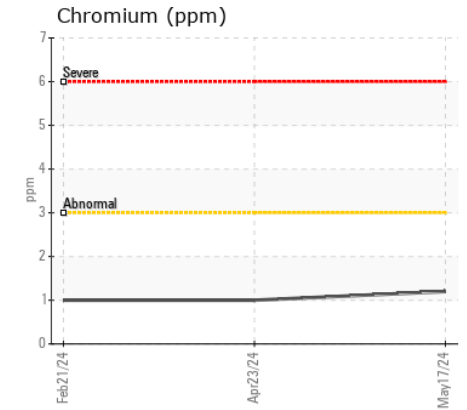
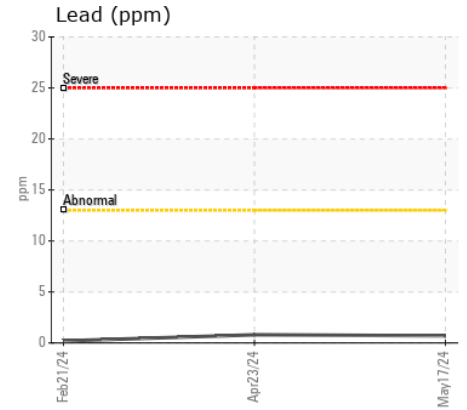
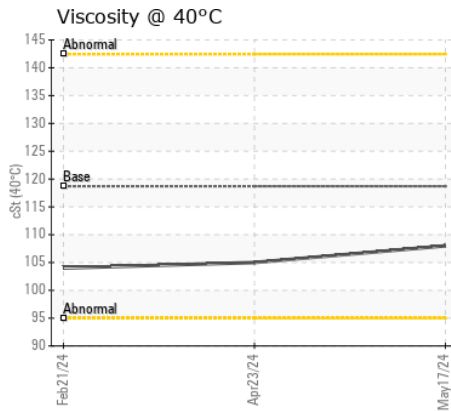
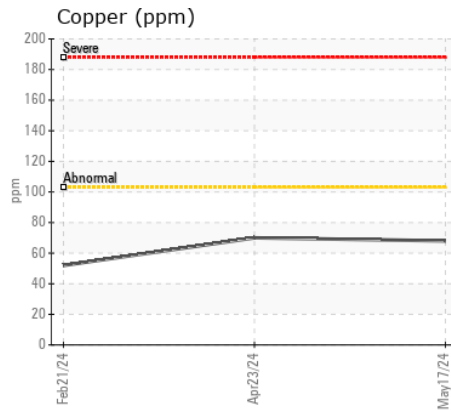
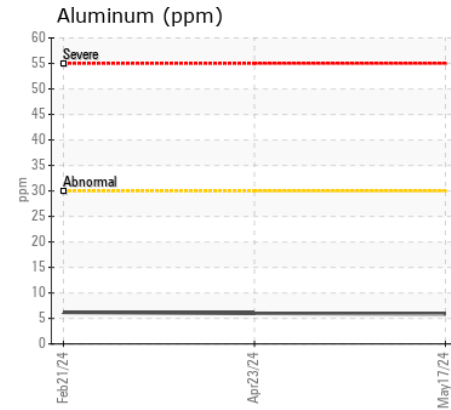
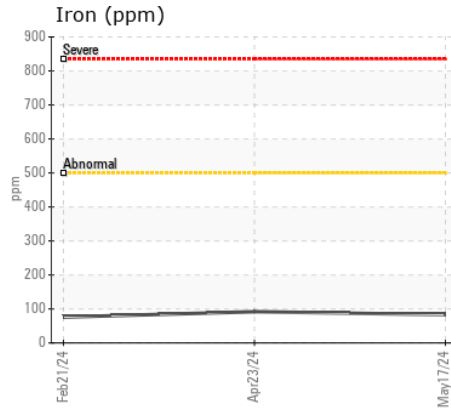
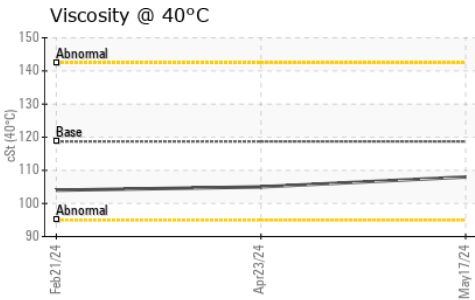
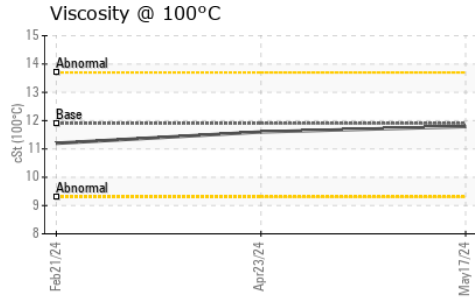
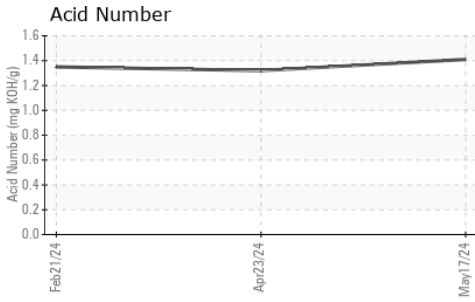
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	13	14	13
Potassium	ppm	ASTM D5185m	>20	3	3	0
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	0	0
Boron	ppm	ASTM D5185m		0	2	0
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	0
Manganese	ppm	ASTM D5185m		2	2	2
Magnesium	ppm	ASTM D5185m		11	10	14
Calcium	ppm	ASTM D5185m	3100	3207	3033	2803
Phosphorus	ppm	ASTM D5185m	1100	1298	1190	1009
Zinc	ppm	ASTM D5185m	1200	1388	1290	1290
Sulfur	ppm	ASTM D5185m		8207	8019	6984
Acid Number (AN)	mg KOH/g	ASTM D8045		1.41	1.32	1.35
Visc @ 40°C	cSt	ASTM D445	118.7	108	105	104
Visc @ 100°C	cSt	ASTM D445	11.9	11.79	11.6	11.2
Viscosity Index (VI)	Scale	ASTM D2270	96.6	96	97	92



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR06189761 **Received** : 23 May 2024  
**Lab Number** : 06189761 **Tested** : 31 May 2024  
**Unique Number** : 11046513 **Diagnosed** : 31 May 2024 - Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: KV100, VI )

**BARR-TECH COMPOSTING**  
 9117 KALLENBERGER RD N  
 SPRAGUE, WA  
 US 99032  
 Contact: RON GROGAN

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)

T: (509)590-0437

F: