



TRAAP

Texas Refinery Advanced Analysis Program

# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**CATERPILLAR 966H 966H-L06 A6D00520**  
 Component  
**Front Differential**  
 Fluid  
**CHEVRON DELO TORQFORCE SAE 30 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06196012	---	---
Sample Date		Client Info		17 May 2024	---	---
Machine Age	hrs	Client Info		27087	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		Not Changd	---	---
Sample Status				NORMAL	---	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	183	---	---
Chromium	ppm	ASTM D5185m	>3	<1	---	---
Nickel	ppm	ASTM D5185m	>3	0	---	---
Titanium	ppm	ASTM D5185m	>2	<1	---	---
Silver	ppm	ASTM D5185m	>2	0	---	---
Aluminum	ppm	ASTM D5185m	>30	2	---	---
Lead	ppm	ASTM D5185m	>13	<1	---	---
Copper	ppm	ASTM D5185m	>103	20	---	---
Tin	ppm	ASTM D5185m	>5	0	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

## CONTAMINATION

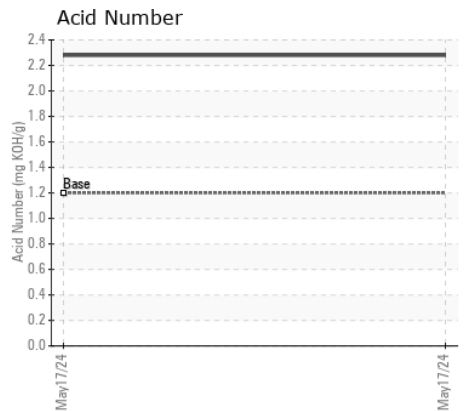
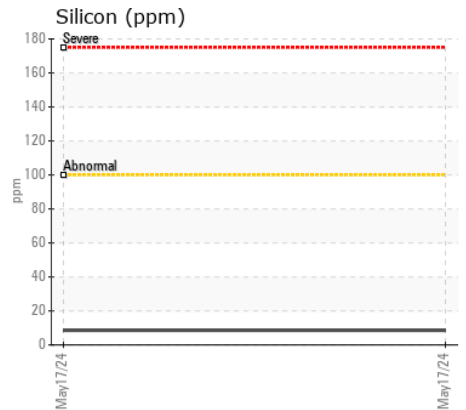
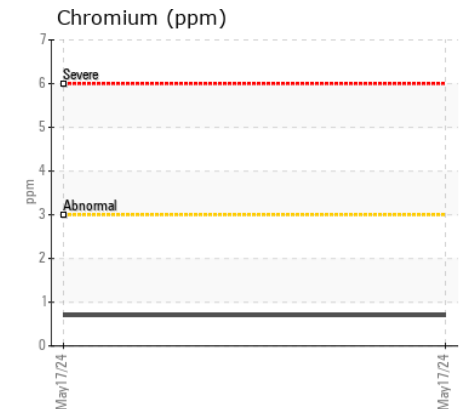
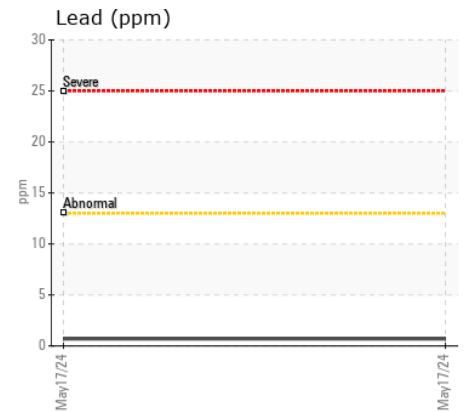
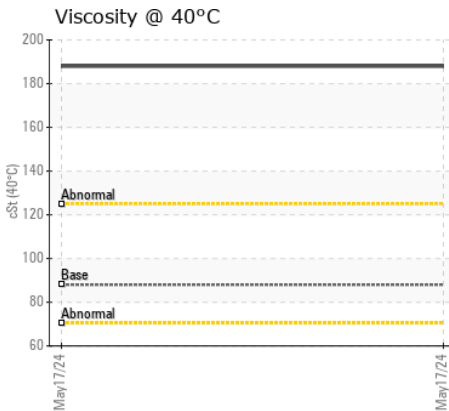
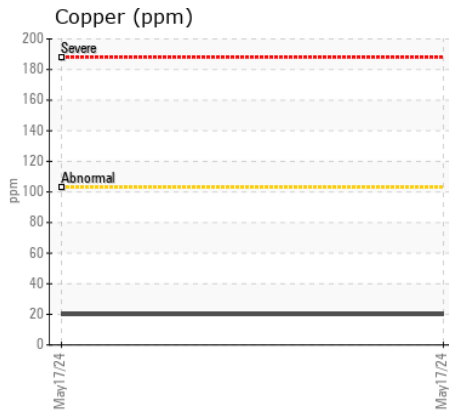
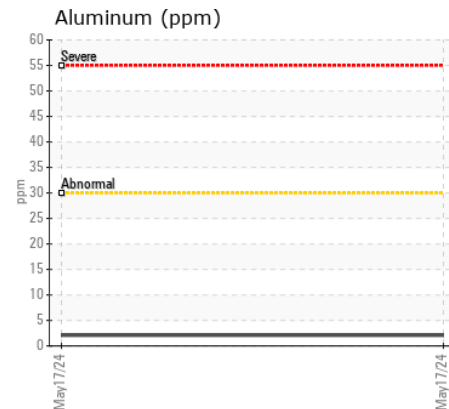
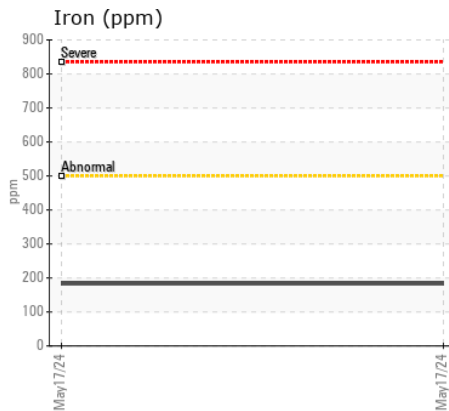
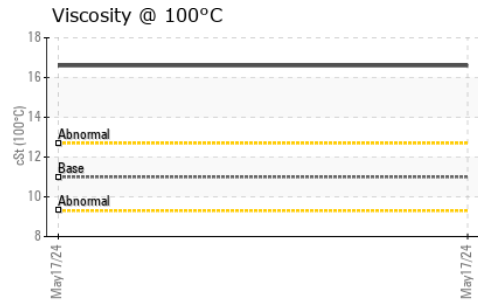
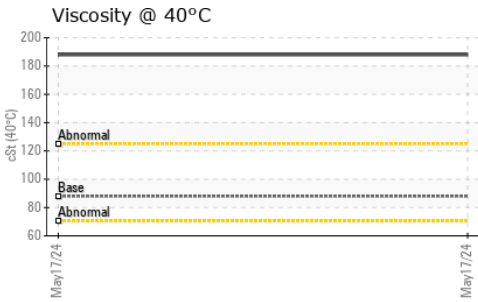
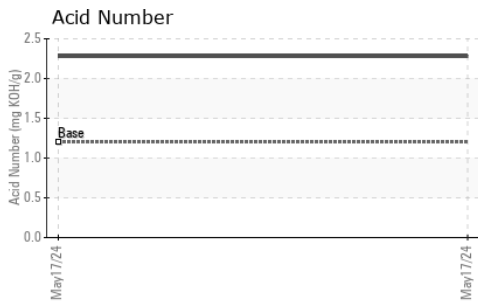
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	9	---	---
Potassium	ppm	ASTM D5185m	>20	0	---	---
Water		WC Method	>.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	>.2	NEG	---	---

## FLUID CONDITION

Confirm oil type. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		13	---	---
Boron	ppm	ASTM D5185m	4	0	---	---
Barium	ppm	ASTM D5185m		<1	---	---
Molybdenum	ppm	ASTM D5185m		8	---	---
Manganese	ppm	ASTM D5185m		2	---	---
Magnesium	ppm	ASTM D5185m	13	16	---	---
Calcium	ppm	ASTM D5185m	4000	2911	---	---
Phosphorus	ppm	ASTM D5185m	990	1235	---	---
Zinc	ppm	ASTM D5185m	1310	1256	---	---
Sulfur	ppm	ASTM D5185m	3010	8208	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.2	2.28	---	---
Visc @ 40°C	cSt	ASTM D445	88	188	---	---
Visc @ 100°C	cSt	ASTM D445	11	16.6	---	---
Viscosity Index (VI)	Scale	ASTM D2270	110	92	---	---



Certificate L2367

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

**Sample No.** : TR06196012

**Lab Number** : 06196012

**Unique Number** : 11058135

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

**Received** : 30 May 2024

**Tested** : 02 Jun 2024

**Diagnosed** : 02 Jun 2024 - Don Baldrige

**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: