



TRAAP

Texas Refinery Advanced Analysis Program

# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id  
**CASE IH CASE IH 310**

Component  
**Hydraulic System**

Fluid  
**CHEVRON 1000 THF (30 GAL)**

## RECOMMENDATION

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.

## WEAR

All component wear rates are normal.

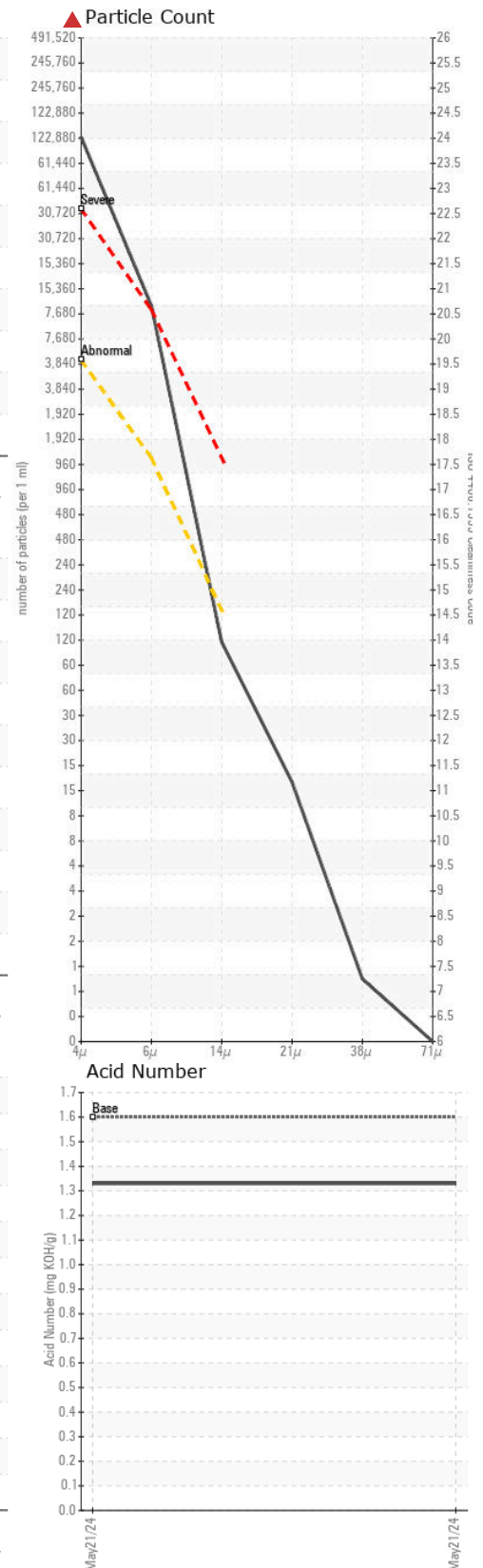
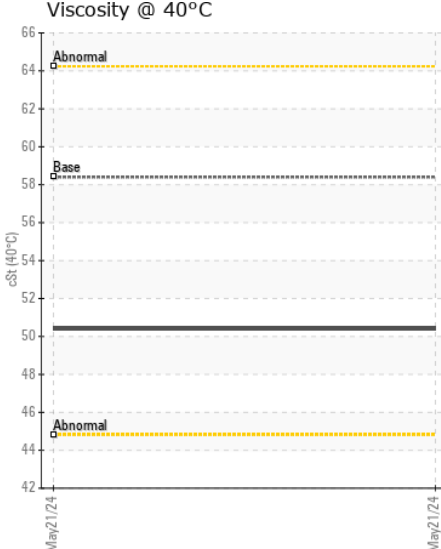
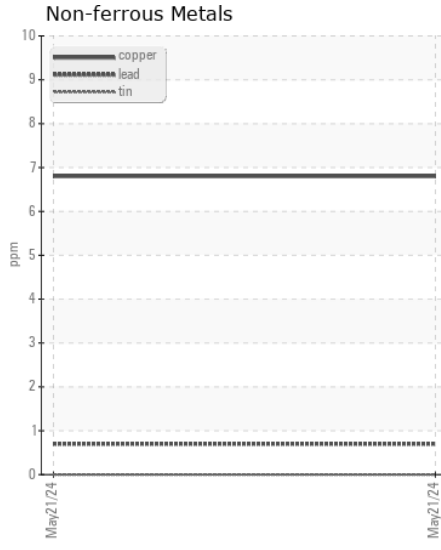
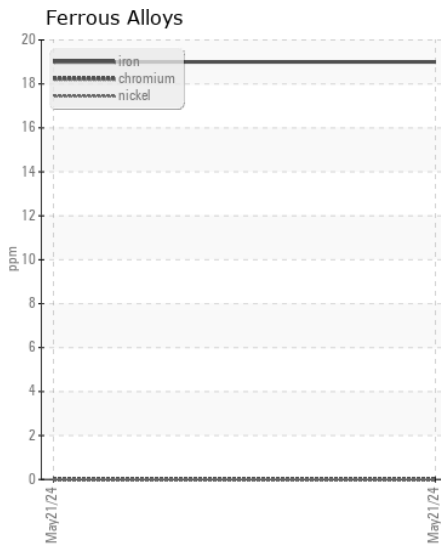
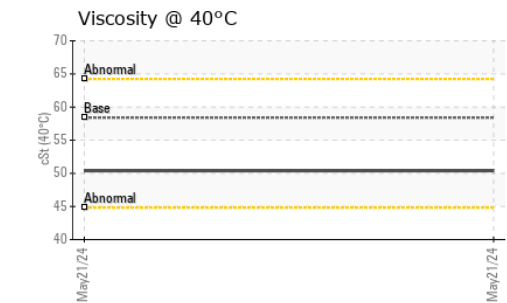
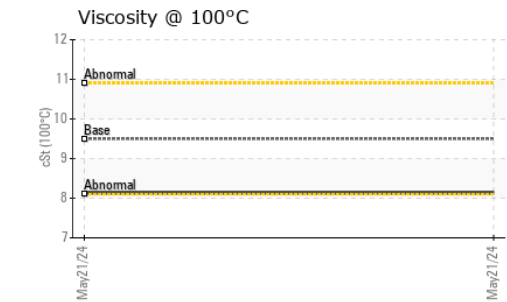
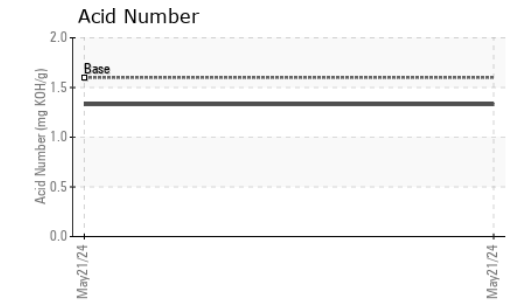
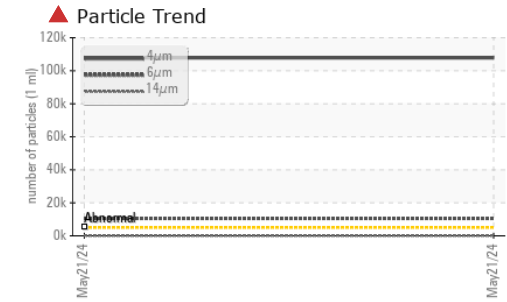
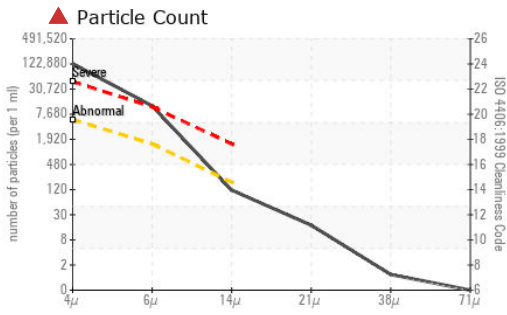
## CONTAMINATION

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

## FLUID CONDITION

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06195889	---	---
Sample Date		Client Info		21 May 2024	---	---
Machine Age	hrs	Client Info		3700	---	---
Oil Age	hrs	Client Info		400	---	---
Filter Age	hrs	Client Info		400	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		Not Changd	---	---
Sample Status				SEVERE	---	---
Iron	ppm	ASTM D5185m	>20	19	---	---
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	>10	1	---	---
Lead	ppm	ASTM D5185m	>10	<1	---	---
Copper	ppm	ASTM D5185m	>75	7	---	---
Tin	ppm	ASTM D5185m	>10	0	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>20	10	---	---
Potassium	ppm	ASTM D5185m	>20	0	---	---
Water		WC Method	>0.1	NEG	---	---
Particles >4µm		ASTM D7647	>5000	▲ 107795	---	---
Particles >6µm		ASTM D7647	>1300	▲ 10561	---	---
Particles >14µm		ASTM D7647	>160	103	---	---
Particles >21µm		ASTM D7647	>40	15	---	---
Particles >38µm		ASTM D7647	>10	1	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 24/21/14	---	---
Silt	scalar	*Visual	NONE	LIGHT	---	---
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	>0.1	NEG	---	---
Sodium	ppm	ASTM D5185m		3	---	---
Boron	ppm	ASTM D5185m	10	21	---	---
Barium	ppm	ASTM D5185m		<1	---	---
Molybdenum	ppm	ASTM D5185m		2	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m	20	21	---	---
Calcium	ppm	ASTM D5185m	3200	2731	---	---
Phosphorus	ppm	ASTM D5185m	1100	936	---	---
Zinc	ppm	ASTM D5185m	1400	1064	---	---
Sulfur	ppm	ASTM D5185m	3600	3828	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.6	1.33	---	---
Visc @ 40°C	cSt	ASTM D445	58.4	50.4	---	---
Visc @ 100°C	cSt	ASTM D445	9.5	8.13	---	---
Viscosity Index (VI)	Scale	ASTM D2270	145	132	---	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR06195889 **Received** : 30 May 2024  
**Lab Number** : 06195889 **Tested** : 04 Jun 2024  
**Unique Number** : 11058012 **Diagnosed** : 04 Jun 2024 - Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: KV100, VI )

**GFY MANAGEMENT**  
 PO BOX 22  
 SPANGLE, WA  
 US 99031  
 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)