



TRAAP

Texas Refinery Advanced Analysis Program

# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id  
**CASE IH STEIGER 535 Z8F109453**  
 Component  
**Hydraulic System**  
 Fluid  
**CASE CASE IH HY-TRAN ULTRA (90 GAL)**

## RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR05741403	TR05585020	---
Sample Date		Client Info		11 Jan 2023	11 Jun 2022	---
Machine Age	hrs	Client Info		8072	7222	---
Oil Age	hrs	Client Info		1000	1388	---
Filter Age	hrs	Client Info		800	1388	---
Oil Changed		Client Info		Not Changed	Not Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	NORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	19	13	---
Chromium	ppm	ASTM D5185m	>10	<1	<1	---
Nickel	ppm	ASTM D5185m	>10	0	0	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m		0	2	---
Aluminum	ppm	ASTM D5185m	>10	3	3	---
Lead	ppm	ASTM D5185m	>10	<1	<1	---
Copper	ppm	ASTM D5185m	>75	26	18	---
Tin	ppm	ASTM D5185m	>10	0	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

## CONTAMINATION

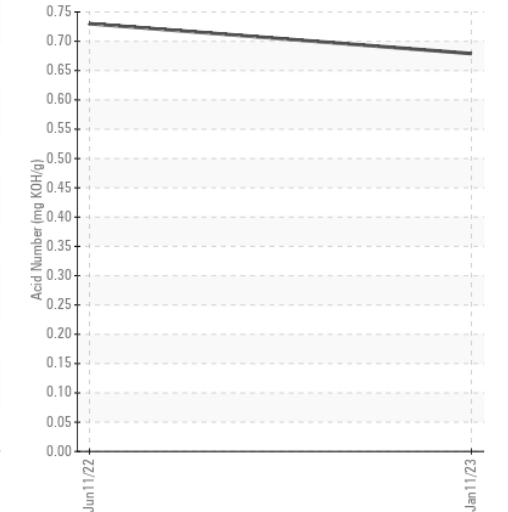
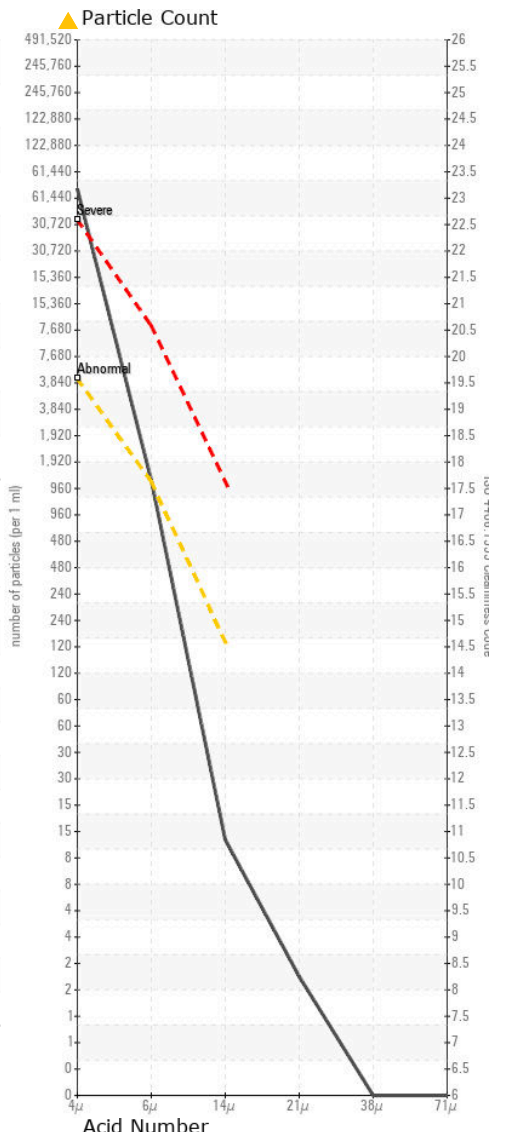
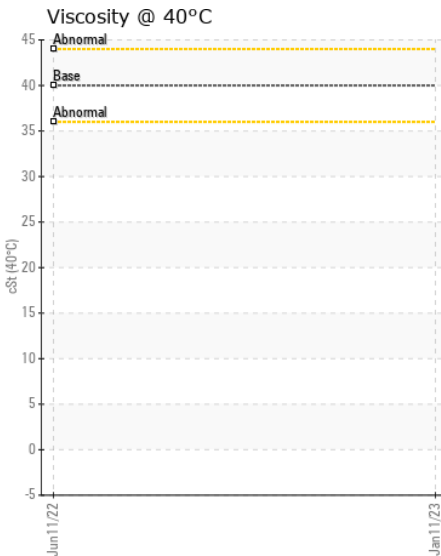
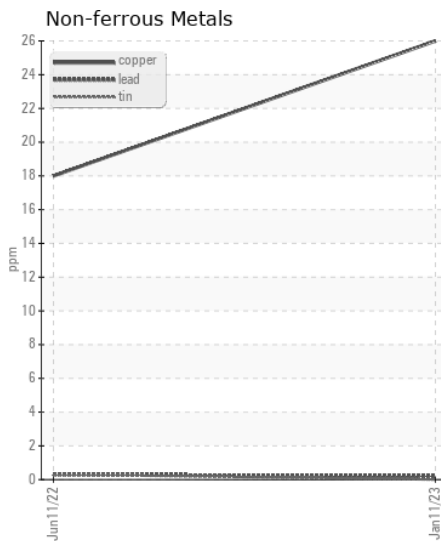
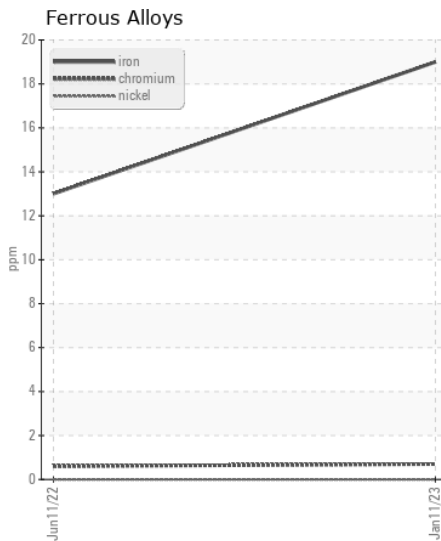
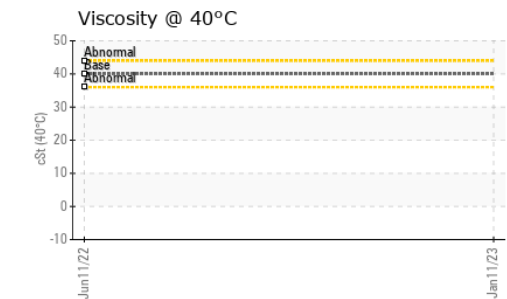
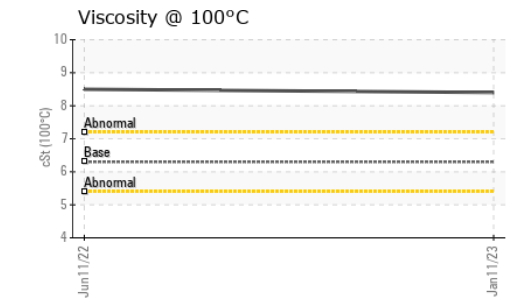
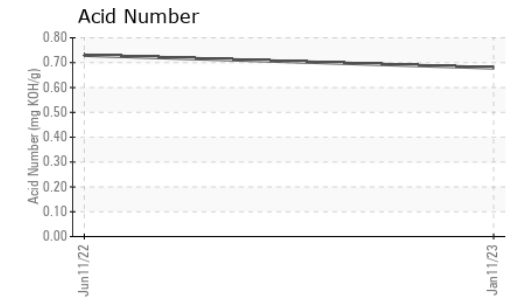
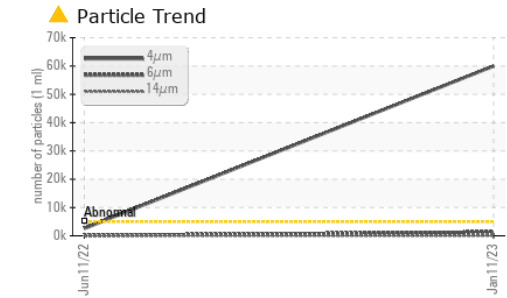
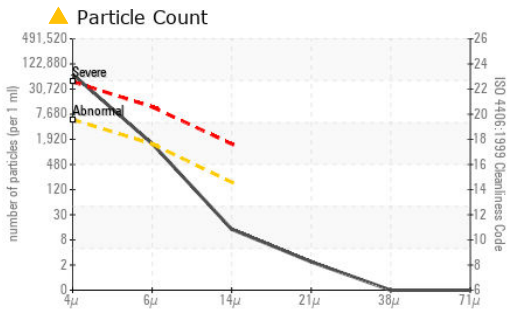
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	9	6	---
Potassium	ppm	ASTM D5185m	>20	0	0	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>5000	▲ 60000	2595	---
Particles >6µm		ASTM D7647	>1300	▲ 1326	107	---
Particles >14µm		ASTM D7647	>160	12	20	---
Particles >21µm		ASTM D7647	>40	2	6	---
Particles >38µm		ASTM D7647	>10	0	2	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 23/18/11	19/14/11	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	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		3	4	---
Boron	ppm	ASTM D5185m		112	114	---
Barium	ppm	ASTM D5185m		0	1	---
Molybdenum	ppm	ASTM D5185m		2	2	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		19	19	---
Calcium	ppm	ASTM D5185m		3045	3157	---
Phosphorus	ppm	ASTM D5185m		785	826	---
Zinc	ppm	ASTM D5185m	0.0	305	299	---
Sulfur	ppm	ASTM D5185m		4083	4778	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.679	0.73	---
Visc @ 100°C	cSt	ASTM D445	6.3	8.4	8.5	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR05741403 **Received** : 17 Jan 2023  
**Lab Number** : 05741403 **Tested** : 19 Jan 2023  
**Unique Number** : 10296002 **Diagnosed** : 19 Jan 2023 - Jonathan Hester  
**Test Package** : MOB 2 ( Additional Tests: KV100 )

**LARRY SCHMIDT**  
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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)