

# **OIL ANALYSIS REPORT**

[AFTER]
TOTE 4 BLACK

Hydraulic System
Fluid
USPI FG HYD 46 (--- GAL)





#### DIAGNOSIS

## Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

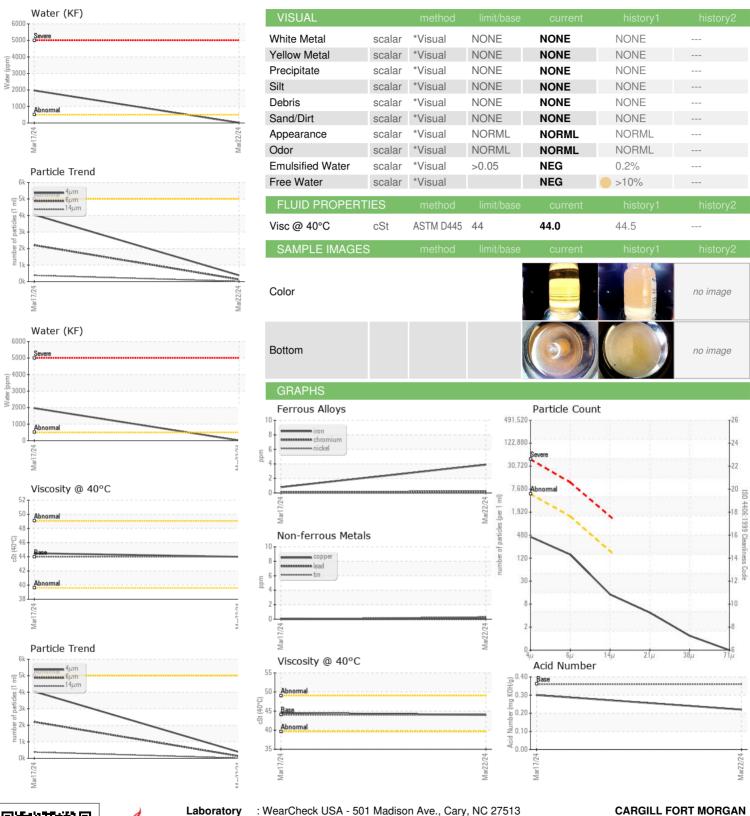
## **Fluid Condition**

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

			Mar2024	Mar2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0008047	USP0006015	
Sample Date		Client Info		22 Mar 2024	17 Mar 2024	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	4	<1	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>20	0	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>20	0	0	
Lead	ppm	ASTM D5185m	>20	0	0	
Copper	ppm	ASTM D5185m	>20	<1	0	
Tin	ppm	ASTM D5185m	>20	<1	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		0	<1	
Magnesium	ppm	ASTM D5185m		<1	0	
Calcium	ppm	ASTM D5185m		3	0	
Phosphorus	ppm	ASTM D5185m	725	452	555	
Zinc	ppm	ASTM D5185m	725	0	0	
Sulfur		ASTM D5185m	625	456	696	
	ppm					
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	1	
Sodium	ppm	ASTM D5185m		0	2	
Potassium	ppm	ASTM D5185m	>20	<1	0	
Water	%	ASTM D6304		0.001	△ 0.197	
ppm Water	ppm	ASTM D6304	>500	12	<u> </u>	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>5000	382	4045	
Particles >6µm		ASTM D7647	>1300	131	<u>^</u> 2204	
Particles >14μm		ASTM D7647	>160	12	<b>△</b> 375	
Particles >21µm		ASTM D7647	>40	4	<u>▲</u> 126	
Particles >38μm		ASTM D7647	>10	1	<u>^</u> 20	
Particles >71μm		ASTM D7647	>3	0	2	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/14/11	<b>△</b> 19/18/16	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.36	0.22	0.30	



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No. Lab Number

: USP0008047 : 06138546 Unique Number : 10963354 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 04 Apr 2024 **Tested** : 05 Apr 2024

Diagnosed : 05 Apr 2024 - Doug Bogart 1505 E BURLINGTON AVE FORT MORGAN, CO US 80701

Contact: JOE ROSENFIELD

To discuss this sample report, contact Customer Service at 1-800-237-1369.

 $^st$  - 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)

Report Id: CARFORCOL [WUSCAR] 06138546 (Generated: 04/05/2024 23:09:25) Rev: 1

Contact/Location: JOE ROSENFIELD - CARFORCOL

T:

F: