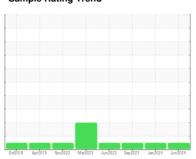


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id **SURGE (SALES) HPU** 

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

### Recommendation

Resample at the next service interval to monitor.

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.

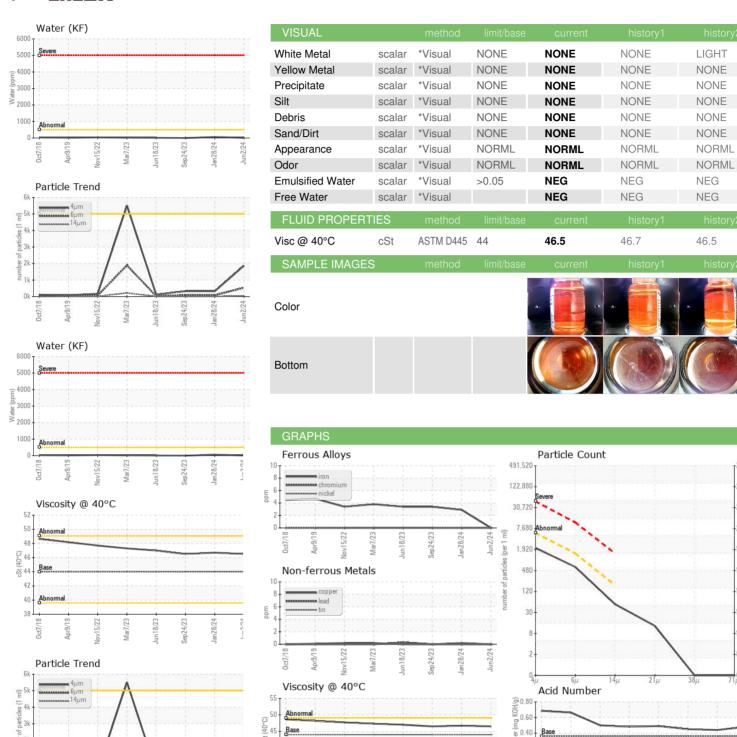
## **Fluid Condition**

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

		Oct2018 A	Apr2019 Nov2022 Mar20:	23 Jun 2023 Sep 2023 Jan 2024	4 Jun2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM36394	USPM30796	USPM29845
Sample Date		Client Info		02 Jun 2024	28 Jan 2024	24 Sep 2023
Machine Age	mls	Client Info		0	0	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	3	3
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	<1
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	0	<1	0
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m	725	341	332	354
Zinc	ppm	ASTM D5185m		7	0	<1
Sulfur	ppm	ASTM D5185m	625	606	529	560
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	<1	<1
Sodium	ppm	ASTM D5185m		<1	<1	0
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.05	0.001	0.006	0.001
ppm Water	ppm	ASTM D6304	>500	12	60	0.00
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1866	318	326
Particles >6µm		ASTM D7647	>1300	534	81	86
Particles >14μm		ASTM D7647	>160	46	8	8
Particles >21µm		ASTM D7647	>40	11	3	2
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/13	15/14/10	16/14/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.36	0.48	0.44	0.45



## **OIL ANALYSIS REPORT**





3 2k



Certificate 12367

Laboratory Sample No.

Lab Number Unique Number : 11059827 Test Package : IND 2

샹

: USPM36394 : 06197704

Abnorma

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

: 04 Jun 2024 Diagnosed : 06 Jun 2024 - Doug Bogart

: 03 Jun 2024

0.40

0.00 G

**CARGILL FORT MORGAN** 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)

T:

F: