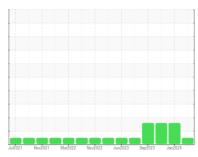


# **OIL ANALYSIS REPORT**

FAB
Machine Id
9B (S/N 5601389)

**Vacuum Pump** 

**USPI VAC 100 (--- GAL)** 



Sample Rating Trend



## 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.

		Jul2021 No	w2021 Mar2022 Nov	2022 Jun2023 Sep2023	Jan 2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM36389	USPM30804	USPM31275
Sample Date		Client Info		02 Jun 2024	29 Jan 2024	11 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	MARGINAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	6	10	10
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
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	1	2	3
Lead	ppm	ASTM D5185m	>20	0	<1	0
Copper	ppm	ASTM D5185m	>20	<1	<1	<1
Tin	ppm	ASTM D5185m	>20	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	0	0	0	7
Molybdenum	ppm	ASTM D5185m	0	0	<1	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	0	0	<1	<1
Calcium	ppm	ASTM D5185m	0	2	4	4
Phosphorus	ppm	ASTM D5185m	1800	1109	829	878
Zinc	ppm	ASTM D5185m	0	<1	0	2
Sulfur	ppm	ASTM D5185m	0	43	0	11
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	12	<u>\$\times\$</u> 25	<b>1</b> 7
Sodium	ppm	ASTM D5185m		6	7	12
Potassium	ppm	ASTM D5185m	>20	2	6	6
Water	%	ASTM D6304	>.1	0.027	0.025	0.036
ppm Water	ppm	ASTM D6304	>1000	272	257	367.6
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	299	1136	246
Particles >6µm		ASTM D7647	>1300	109	215	74
Particles >14μm		ASTM D7647	>160	17	14	8
Particles >21µm		ASTM D7647	>40	6	2	2
Particles >38µm		ASTM D7647	>10	1	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	15/14/11	17/15/11	15/13/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.73	1.16	1.58



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No. Lab Number Unique Number : 11059817

: USPM36389 : 06197694 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Jun 2024 **Tested** : 04 Jun 2024

Diagnosed : 05 Jun 2024 - Doug Bogart **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: