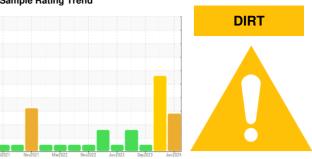


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

9S (S/N 5607620)

Vacuum Pump

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

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

## Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal.

### **Fluid Condition**

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

		Jul2021	lov2021 Mar2022 I	Nov2022 Jun2023 Sep2023	Jun 2024	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM36387	USPM30803	USPM29808
Sample Date		Client Info		02 Jun 2024	29 Jan 2024	27 Sep 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				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	6	0
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>20	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	0	<1
Lead	ppm	ASTM D5185m	>20	0	<1	0
Copper	ppm	ASTM D5185m	>20	0	<1	0
Tin	ppm	ASTM D5185m	>20	0	<1	<1
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	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	<1	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	0	0	1	0
Calcium	ppm	ASTM D5185m	0	10	9	1
Phosphorus	ppm	ASTM D5185m	1800	852	706	1236
Zinc	ppm	ASTM D5185m	0	25	10	0
Sulfur	ppm	ASTM D5185m	0	6	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<u>^</u> 30	<b>△</b> 30	25
Sodium	ppm	ASTM D5185m		7	4	0
Potassium	ppm	ASTM D5185m	>20	8	19	<1
Water	%	ASTM D6304	>.1	0.002	<b>△</b> 0.359	0.047
ppm Water	ppm	ASTM D6304	>1000	21	<u>▲</u> 3590	477.7
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ 30606	<u></u>	2029
i aitiolog / ipili						7.47
Particles >6µm		ASTM D7647	>1300	<b>4502</b>	<u> 18166</u>	747
		ASTM D7647 ASTM D7647	>1300	▲ 4502 74	▲ 18166 ▲ 411	91
Particles >6µm Particles >14µm		ASTM D7647				
Particles >6µm Particles >14µm Particles >21µm			>160 >40	74 10	<b>▲</b> 411	91
Particles >6μm Particles >14μm Particles >21μm Particles >38μm		ASTM D7647 ASTM D7647 ASTM D7647	>160 >40 >10	74 10 0	▲ 411 37	91 21
Particles >6μm Particles >14μm Particles >21μm		ASTM D7647 ASTM D7647	>160 >40	74 10	▲ 411 37 0	91 21 2
Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	TION	ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>160 >40 >10 >3	74 10 0 0	▲ 411 37 0	91 21 2 1



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No. Lab Number

Unique Number : 11059819 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : USPM36387 : 06197696

Received **Tested** 

: 04 Jun 2024 Diagnosed : 05 Jun 2024 - Doug Bogart

: 03 Jun 2024

**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)

Report Id: CARFORCOL [WUSCAR] 06197696 (Generated: 06/07/2024 04:15:05) Rev: 1

Contact/Location: JOE ROSENFIELD - CARFORCOL

T:

F: