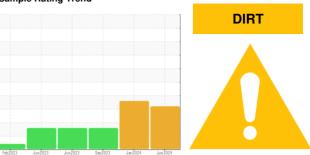


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# 7B (S/N U063805017)

Vacuum Pump

USPI VAC 100 (--- GAL)

### DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

## Contamination

There is a high amount of particulates 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.

		Feb 2023	Jun2023 Jun2023	Sep2023 Jan2024	Jun2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM36388	USPM30816	USPM29806
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	MARGINAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	3	5	0
Chromium	ppm	ASTM D5185m	>20	0	<1	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	2	<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	0	<1	0
Phosphorus	ppm	ASTM D5185m	1800	1107	377	544
Zinc	ppm	ASTM D5185m	0	0	0	0
Sulfur	ppm	ASTM D5185m	0	15	18	0
CONTAMINANTS		method	limit/base	current	history1	history2
						▲ 22
Silicon	ppm		>15	<u>▲</u> 31	<u>^</u> 27	
Sodium	ppm	ASTM D5185m	00	<1	0	0
Potassium	ppm	ASTM D5185m	>20	0	2	<1
Water	%	ASTM D6304		0.00	0.009	0.021
ppm Water	ppm	ASTM D6304	>1000	0	94	218.6
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u>^</u> 229089	<u>118023</u>	458
Particles >6µm		ASTM D7647	>1300	<b>49326</b>	▲ 36716	147
Particles >14µm		ASTM D7647	>160	<u> </u>	<u></u> 945	15
Particles >21µm		ASTM D7647	>40	7	<u>109</u>	3
Particles >38µm		ASTM D7647	>10	0	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>25/23/15</u>	<u>4</u> 24/22/17	16/14/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.068	0.07	0.172



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No. : USPM36388 Lab Number : 06197695 Unique Number : 11059818

Test Package : IND 2

Received : 03 Jun 2024 **Tested** : 05 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: