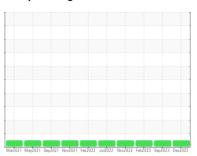


## **OIL ANALYSIS REPORT**

### **Sample Rating Trend**



NORMAL



# A3 SARAN LINE 3 (S/N U164500165)

Component **Pump** Fluid

**USPI VAC 100 (--- 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.

Marž021 Mayč021 Sapž021 Novž021 Feb2022 Jus2022 Novž022 Feb2023 Sapž023 Davž023						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM31989	USPM29585	USPM26537
Sample Date		Client Info		05 Dec 2023	11 Sep 2023	27 Feb 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	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	4	4	0
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>7	<1	0	<1
Lead	ppm	ASTM D5185m	>12	0	0	0
Copper	ppm	ASTM D5185m	>30	0	0	0
Tin	ppm	ASTM D5185m	>9	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	0	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	1
Magnesium	ppm	ASTM D5185m	0	0	<1	0
Calcium	ppm	ASTM D5185m	0	0	0	0
Phosphorus	ppm	ASTM D5185m	1800	1562	1440	1364
Zinc	ppm	ASTM D5185m	0	0	0	2
Sulfur	ppm	ASTM D5185m	0	0	16	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	<1	1	2
Sodium	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	0	2	1
Water	%	ASTM D6304	>.1	0.031	0.047	0.034
ppm Water	ppm	ASTM D6304	>1000	315	478.6	348.8
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	526	730	536
Particles >6µm		ASTM D7647	>2500	155	215	146
Particles >14µm		ASTM D7647	>640	19	15	14
Particles >21µm		ASTM D7647	>160	3	6	4
Particles >38μm		ASTM D7647	>40	0	1	1
Particles >71μm		ASTM D7647	>10	0	1	0
Oil Cleanliness		ISO 4406 (c)	>20/18/16	16/14/11	17/15/11	16/14/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.21	0.21	0.15



## **OIL ANALYSIS REPORT**







Certificate L2367

Sample No. Lab Number **Unique Number** Test Package

: 06026490 : 10776281 : IND 2

: 06 Dec 2023 Received : 07 Dec 2023 Diagnosed

Diagnostician : Doug Bogart COLUMBIA, MO US 65202

Contact: Service Manager

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

\* - 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: