

# **OIL ANALYSIS REPORT**

Sample Rating Trend

ISO

## PL1 EAST CV UPPER (S/N 55892042) Component Pump

USPI VAC 100 (--- GAL)

### DIAGNOSIS

#### A 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.

#### **Fluid Condition**

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

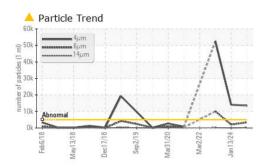
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM36477	USPM30741	USPM26885
Sample Date		Client Info		04 Jun 2024	13 Jan 2024	22 Mar 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	0	0	<1
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>7	0	0	<1
Lead	ppm	ASTM D5185m	>12	0	0	0
Copper	ppm	ASTM D5185m		0	<1	0
Tin	ppm	ASTM D5185m	>9	۰ <1	<1	0
Antimony	ppm	ASTM D5185m	-			
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	PPIII			-		-
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	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	0	0	<1	<1
Calcium	ppm	ASTM D5185m	0	<1	3	0
Phosphorus	ppm	ASTM D5185m	1800	857	840	883
Zinc	ppm	ASTM D5185m	0	0	5	0
Sulfur	ppm	ASTM D5185m	0	61	113	21
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	10	10	7
Sodium	ppm	ASTM D5185m		<1	1	0
Potassium	ppm	ASTM D5185m	>20	2	0	<1
Water	%	ASTM D6304	>.1	0.040	0.030	0.027
ppm Water	ppm	ASTM D6304	>1000	401	301	276.9
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>13509</b>	▲ 14102	▲ 52549
Particles >6µm		ASTM D7647	>1300	<u> </u>	2080	▲ 10021
Particles >14μm		ASTM D7647	>160	204	48	<b>1</b> 98
Particles >21µm		ASTM D7647	>40	45	9	<b>5</b> 1
Particles >38µm		ASTM D7647	>10	2	0	1
Particles >71µm				2	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	_ <u> </u>	▲ 21/18/13	▲ 23/21/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN) :29:06) Rev: 1	mg KOH/g	ASTM D8045	0.05	0.072	0.205 Contact/Location:	0.097

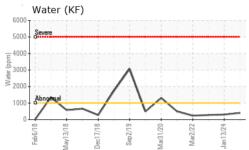
Report Id: ARMSAIIL [WUSCAR] 06200179 (Generated: 06/10/2024 10:29:06) Rev: 1

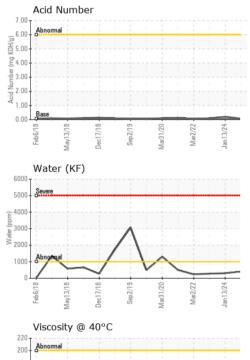
Contact/Location: ? ? - ARMSAIIL

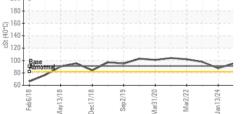


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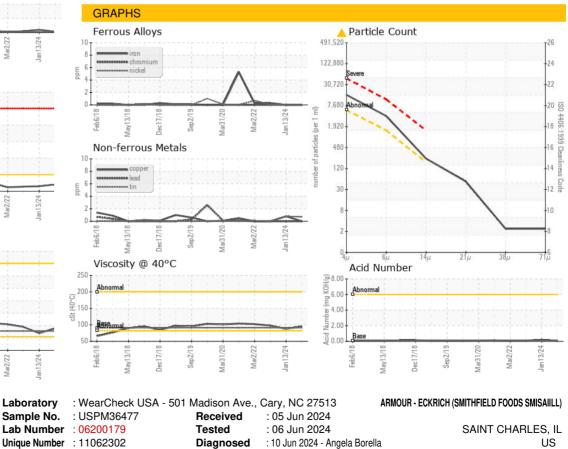


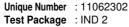
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	91	95.5	87.5	97.7
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color				a.		

**D** ...



Bottom





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)

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Certificate 12367

Contact/Location: ? ? - ARMSAIIL

Contact:

T:

F: