

## **OIL ANALYSIS REPORT**

Sample Rating Trend WATER

Machine Id

### VAC 1178605-2 NORTH (S/N U061501855) Component Pump Fluid

USPI VAC 100 (--- GAL)

#### DIAGNOSIS

#### Recommendation

We advise that you follow the water drain-off procedure for 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. Free water present. There is a light concentration of water present in the oil.

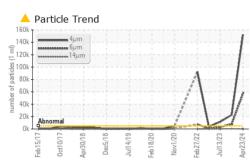
#### Fluid Condition

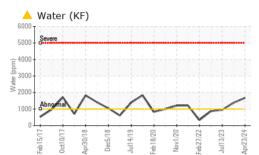
The AN level is acceptable for this fluid.

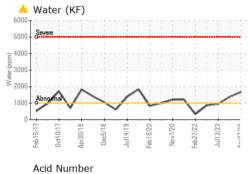
SAMPLE INFORM	<b>ATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM36814	USPM31317	USPM27375
Sample Date		Client Info		23 Apr 2024	18 Nov 2023	13 Jul 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	10	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	0	0
Tin	ppm	ASTM D5185m	>9	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	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	<1	<1	0
Calcium	ppm	ASTM D5185m	0	2	0	0
Phosphorus	ppm	ASTM D5185m	1800	804	891	1330
Zinc	ppm	ASTM D5185m	0	2	0	0
Sulfur	ppm	ASTM D5185m	0	8	52	28
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	5	4	4
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	0	0	1
Water	%	ASTM D6304	>.1	<b>A</b> 0.167	▲ 0.137	0.095
ppm Water	ppm	ASTM D6304	>1000	<b>A</b> 1670	▲ 1377.9	956.0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>152223</b>	A 22551	<b>1</b> 1589
Particles >6µm		ASTM D7647	>1300	<u> </u>	<b>A</b> 7611	<b>A</b> 3218
Particles >14µm		ASTM D7647	>160	<u> </u>	<b>4</b> 89	🔺 161
Particles >21µm		ASTM D7647	>40	19	<b>9</b> 4	28
Particles >38µm		ASTM D7647	>10	2	7	3
Particles >71µm		ASTM D7647	>3	0	1	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>4/23/15</b>	▲ 22/20/16	▲ 21/19/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.64	0.16	0.55

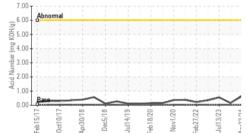


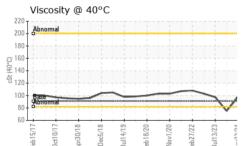
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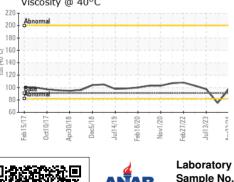






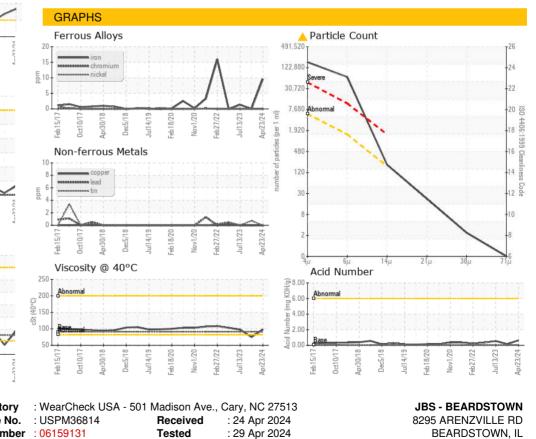






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.1	<b>  0.2%</b>	NEG	NEG
Free Water	scalar	*Visual		<u> </u>	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	91	97.4	75.1	97.4
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color						
				All and a	1 And and and	1

Bottom



: 29 Apr 2024 - Doug Bogart



Sample No. Lab Number : 06159131 Unique Number : 10994554 Test Package : IND 2 Certificate 12367

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)

Diagnosed

Report Id: JBSBEA [WUSCAR] 06159131 (Generated: 05/04/2024 04:14:19) Rev: 1

Contact/Location: ? ? - JBSBEA

US 62618

Contact:

T:

F: