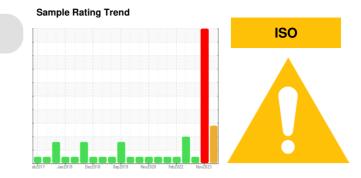


OIL ANALYSIS REPORT



Machine Id

VAC 1178634-3 MIDDLE (S/N C5878-1) Pump Fluid

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. Moderate concentration of visible dirt/debris present in the oil.

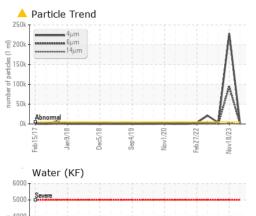
Fluid Condition

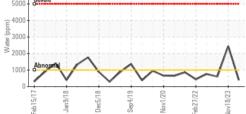
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

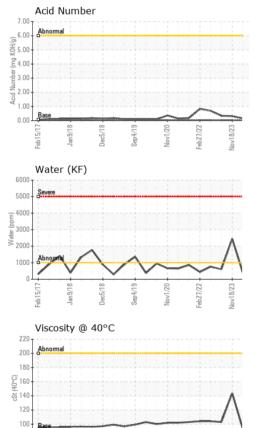
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM36818	USPM31309	USPM27379
Sample Date		Client Info		23 Apr 2024	18 Nov 2023	13 Jul 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	SEVERE	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	2	39	2
Chromium	ppm	ASTM D5185m	>5	0	<1	0
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m	>3	0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>7	0	1 24	<1
Lead	ppm	ASTM D5185m	>12	0	2	0
Copper	ppm	ASTM D5185m	>30	0	2	0
Tin	ppm	ASTM D5185m	>9	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	0	0	35	0
Molybdenum	ppm	ASTM D5185m	0	0	<1	0
Manganese	ppm	ASTM D5185m		0	1	<1
Magnesium	ppm	ASTM D5185m	0	<1	3	0
Calcium	ppm	ASTM D5185m	0	4	14	0
Phosphorus	ppm	ASTM D5185m	1800	680	939	1436
Zinc	ppm	ASTM D5185m	0	0	3	0
Sulfur	ppm	ASTM D5185m	0	74	5	0
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	15	6	3
Sodium	ppm	ASTM D5185m		<1	<u> </u>	0
Potassium	ppm	ASTM D5185m	>20	0	5	2
Water	%	ASTM D6304	>.1	0.039	▲ 0.245	0.060
ppm Water	ppm	ASTM D6304	>1000	395	▲ 2450.0	600.5
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	2940	▲ 229065	2802
Particles >6µm		ASTM D7647	>1300	<u> </u>	4 95171	868
Particles >14µm		ASTM D7647	>160	524	<u> </u>	43
Particles >21µm		ASTM D7647	>40	<mark>/</mark> 298	A 241	7
Particles >38µm		ASTM D7647	>10	4 5	A 23	1
Particles >71µm		ASTM D7647	>3	<u> </u>	4 5	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/18/16	▲ 25/24/17	19/17/13
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.16	0.32	0.34



OIL ANALYSIS REPORT

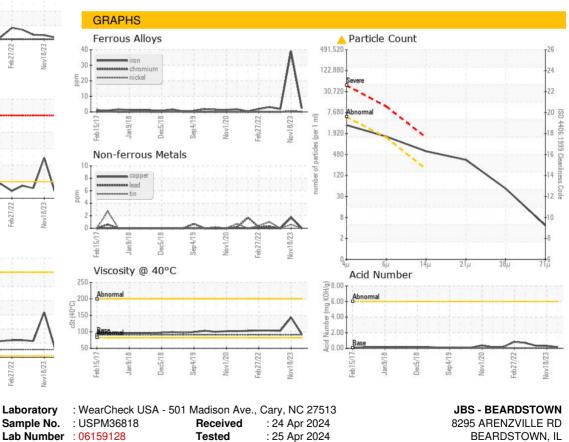






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	A MODER	LIGHT	NONE
Sand/Dirt	scalar	*Visual	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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	91	93.1	143.6	103
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						5
Bottom				1		

Bottom



: 26 Apr 2024 - Jonathan Hester



Abnormal 80

Feb15/1

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] 06159128 (Generated: 04/26/2024 08:17:16) Rev: 1

Certificate 12367

Feb27/22

Vov18/23

Unique Number : 10994551

Test Package : IND 2

Contact/Location: ? ? - JBSBEA

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US 62618

Contact:

T:

F: