

OIL ANALYSIS REPORT

Machine Id BUSCH M934 MULTIVAC 250 (S/N D7883) Component Pump

Fluid **USPI VAC 100 (--- GAL)**

Recommendation

Resample at the next service interval to monitor.

Wear

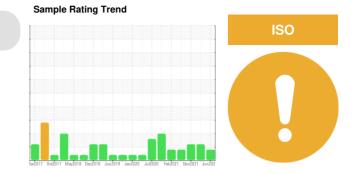
All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 6 microns in size) present in the oil.

Fluid Condition

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



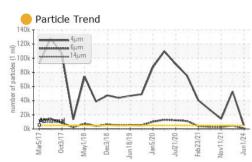
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM37778	USPM30850	USPM20426
Sample Date		Client Info		01 Jun 2024	29 Jan 2024	11 Nov 2021
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	10	11	5
Chromium	ppm	ASTM D5185m	>5	0	<1	0
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m	>3	0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>7	<1	0	0
Lead	ppm	ASTM D5185m	>12	0	<1	<1
Copper	ppm	ASTM D5185m	>30	<1	<1	0
Tin	ppm	ASTM D5185m	>9	1	<1	<1
Antimony	ppm	ASTM D5185m				0
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	3	0	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	<1	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	0	<1	<1	0
Calcium	ppm	ASTM D5185m	0	0	<1	0
Phosphorus	ppm	ASTM D5185m	1800	1623	1282	1477
Zinc	ppm	ASTM D5185m	0	0	0	0
Sulfur	ppm	ASTM D5185m	0	43	0	26
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	12	10	12
Sodium	ppm	ASTM D5185m		4	<1	1
Potassium	ppm	ASTM D5185m	>20	4	2	<1
Water	%	ASTM D6304	>.1	0.082	0.041	0.035
ppm Water	ppm	ASTM D6304	>1000	824	416	351.1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	6 5119	▲ 52990	▲ 14283
Particles >6µm		ASTM D7647	>1300	706	4 792	A 2845
Particles >14µm		ASTM D7647	>160	26	22	1 70
Particles >21µm		ASTM D7647	>40	4	3	32
Particles >38µm		ASTM D7647	>10	0	0	7
Particles >71µm		ASTM D7647	>3	0	0	2
Oil Cleanliness		ISO 4406 (c)	>19/17/14	e 20/17/12	▲ 23/19/12	1 /19/15
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.21		0.226

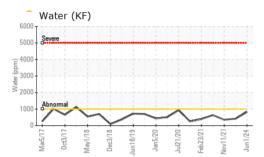
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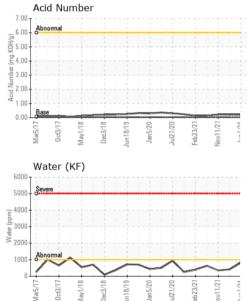
0.21 0.22 0.226 Contact/Location: SERVICE MANAGER - IBPEMP01

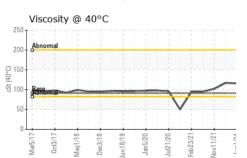


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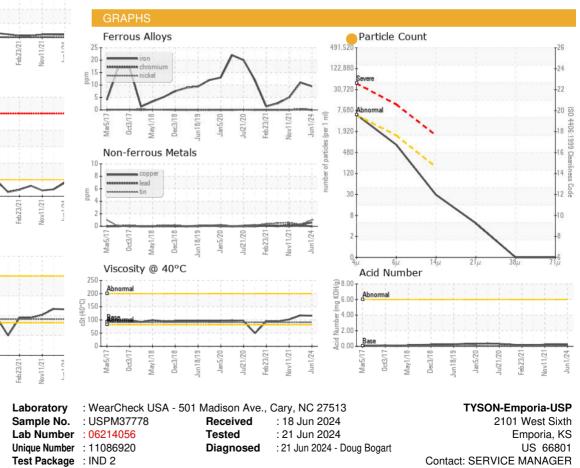




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Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >.1 NEG NEG NEG Free Water scalar *Visual >.1 NEG NEG NEG Free Water scalar *Visual NEG NEG NEG FLUID PROPERTIES method limit/base current history1 history2 Visc @ 40°C cSt ASTM D445 91 116 117 102 SAMPLE IMAGES method limit/base current history1 history2	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance scalar *Visual NORML NEG NEG NEG <	Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Odor scalar *Visual NORML <	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Water scalar *Visual >.1 NEG NEG NEG Free Water scalar *Visual NEG NEG NEG NEG FLUID PROPERTIES method limit/base current history1 history2 Visc @ 40°C cSt ASTM D445 91 116 117 102 SAMPLE IMAGES method limit/base current history1 history2	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Free Water scalar *Visual NEG NEG NEG FLUID PROPERTIES method limit/base current history1 history2 Visc @ 40°C cSt ASTM D445 91 116 117 102 SAMPLE IMAGES method limit/base current history1 history2	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
FLUID PROPERTIES method limit/base current history1 history2 Visc @ 40°C cSt ASTM D445 91 116 117 102 SAMPLE IMAGES method limit/base current history1 history2	Emulsified Water	scalar	*Visual	>.1	NEG	NEG	NEG
Visc @ 40°C cSt ASTM D445 91 116 117 102 SAMPLE IMAGES method limit/base current history1 history2	Free Water	scalar	*Visual		NEG	NEG	NEG
SAMPLE IMAGES method limit/base current history1 history2	FLUID PROPERT	IES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D445	91	116	117	102
Color Color	SAMPLE IMAGES	3	method	limit/base	current	history1	history2
	Color				•		3

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) T: (620)343-3640 F: (620)340-1253

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Certificate 12367

Contact/Location: SERVICE MANAGER - IBPEMP01

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