

OIL ANALYSIS REPORT

Sample Rating Trend

WATER

Machine Id BUSCH VM10 / VP-3

Component Pump Fluid USPI VAC 100 (--- GAL)

DIAGNOSIS

A 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 < 14 microns in size) present in the oil. There is a light concentration of water present in the oil.

Fluid Condition

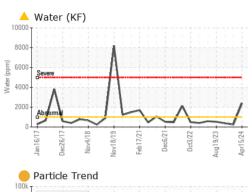
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

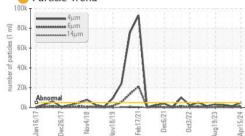
SAMPLE INFORM	/IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0006793	USPM30282	USPM31419
Sample Date		Client Info		15 Apr 2024	28 Feb 2024	26 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	0	0	2
Chromium	ppm	ASTM D5185m	>5	0	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m		0	1	2
Lead		ASTM D5185m	>12	0	0	<1
	ppm			0	0	
Copper	ppm	ASTM D5185m		-		<1
Tin	ppm	ASTM D5185m	>9	<1	1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	0	0	0	<1
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	0	0	<1	<1
Calcium	ppm	ASTM D5185m	0	0	3	7
Phosphorus	ppm	ASTM D5185m	1800	1169	1029	1536
Zinc	ppm	ASTM D5185m	0	0	3	0
Sulfur	ppm	ASTM D5185m	0	<1	2	0
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	3	4	7
Sodium	ppm	ASTM D5185m		2	<1	3
Potassium	ppm	ASTM D5185m	>20	17	0	1
Water	%	ASTM D6304	>.1	A 0.239	0.023	0.037
ppm Water	ppm	ASTM D6304	>1000	A 2394	236	370
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	5099	1441	2719
Particles >6µm		ASTM D7647	>1300	<u> </u>	339	856
Particles >14µm		ASTM D7647	>160	129	12	45
Particles >21µm		ASTM D7647	>40	33	1	14
Particles >38µm		ASTM D7647		5	0	7
Particles >71µm		ASTM D7647		1	0	2
Oil Cleanliness		ISO 4406 (c)	>19/17/14	. 20/18/14	18/16/11	19/17/13
FLUID DEGRADA		method	limit/base		history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.36	0.39	0.38

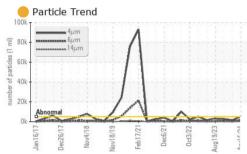
Contact/Location: Service Manager - IBPDAKPRO Page 1 of 2

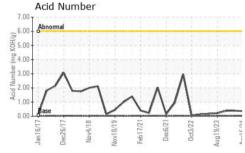


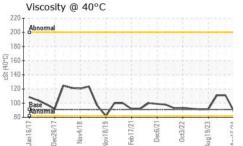
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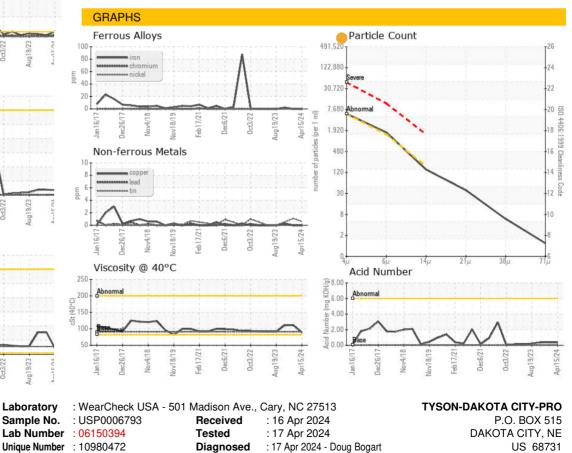






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	88.6	111	111
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						

Bottom



Unique Number : 10980472 Test Package : IND 2

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)

Т: F: (605)235-2960

Contact: Service Manager

Certificate 12367

Contact/Location: Service Manager - IBPDAKPRO