

OIL ANALYSIS REPORT

Sample Rating Trend

anna lanna anna an

ISO

Machine Id

BUSCH VM1 / VP-1

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

DIAGNOSIS

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.

Fluid Condition

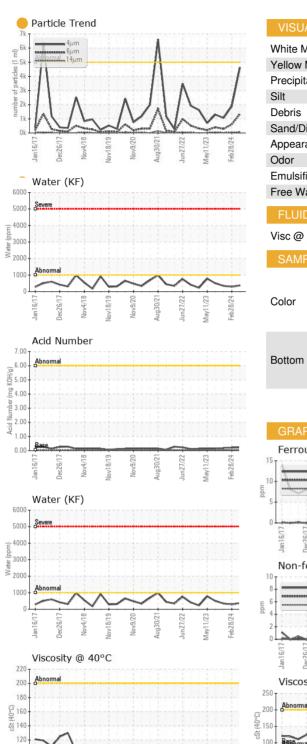
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0006312	USPM30274	USPM31352
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				ATTENTION	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	0	0	0
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>7	<1	<1	<1
				0	0	<1
Lead	ppm	ASTM D5185m	>12			
Copper	ppm	ASTM D5185m	>30	0	0	0
Tin	ppm	ASTM D5185m	>9	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
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		0	0	0
Magnesium	ppm	ASTM D5185m	0	0	0	<1
Calcium	ppm	ASTM D5185m	0	1	<1	3
Phosphorus	ppm	ASTM D5185m	1800	1452	1357	1527
Zinc	ppm	ASTM D5185m	0	0	3	0
Sulfur	ppm	ASTM D5185m	0	0	0	9
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	2	3	2
Sodium	ppm	ASTM D5185m		<1	<1	0
Potassium	ppm	ASTM D5185m	>20	6	0	1
Water	%	ASTM D6304	>.1	0.036	0.028	0.034
ppm Water	ppm	ASTM D6304	>1000	368	288	347
FLUID CLEANLIN	ESS	method	limit/base		history1	history2
Particles >4µm		ASTM D7647	>5000	4625	1886	1064
Particles >6µm		ASTM D7647	>1300	<mark> </mark> 1347	607	290
Particles >14µm		ASTM D7647	>160	70	37	19
Particles >21µm		ASTM D7647	>40	14	6	5
Particles >38µm		ASTM D7647	>10	1	0	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/18/13	18/16/12	17/15/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.22	0.21	0.17

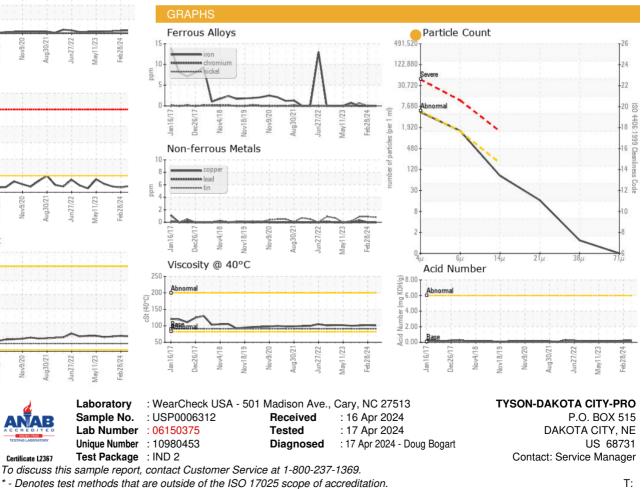
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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Abnormal

Jan 16/1 Jec26/1

Contact/Location: Service Manager - IBPDAKPRO