

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

16 BUSCH RP-1 (S/N 5547609) 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 no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

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

SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM36149	USPM30676	USPM29834
Sample Date		Client Info		13 May 2024	17 Jan 2024	02 Oct 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				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	3	1	3
Chromium	ppm	ASTM D5185m	>5	<1	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>7	1	0	0
Lead	ppm	ASTM D5185m	>12	0	<1	0
Copper	ppm		>30	<1	0	<1
Tin	ppm	ASTM D5185m	>9	<1	<1	0
Vanadium	ppm	ASTM D5185m	20	<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES	le le	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	<1	0	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	0	1	0	3
Calcium	ppm	ASTM D5185m		4	5	8
Phosphorus	ppm	ASTM D5185m	1800	615	521	464
Zinc	ppm	ASTM D5185m	0	1	0	1
Sulfur	ppm	ASTM D5185m	0	10	0	71
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	20	19	18
Sodium	ppm	ASTM D5185m		1	<1	0
Potassium	ppm	ASTM D5185m	>20	2	1	<1
Water	%	ASTM D6304	>.1	0.034	0.011	0.020
ppm Water	ppm	ASTM D6304	>1000	341	119	208.3
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	524	213	238
Particles >6µm		ASTM D7647	>1300	97	51	52
Particles >14µm		ASTM D7647	>160	12	11	7
Particles >21µm		ASTM D7647	>40	7	3	3
Particles >38µm		ASTM D7647	>10	3	0	1
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/14/11	15/13/11	15/13/10
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.19	0.078	0.084



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scalar

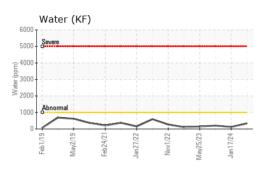
scalar

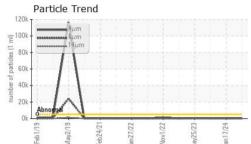
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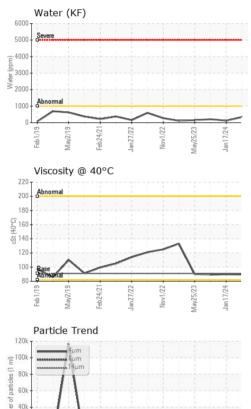
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*Visual

*Visual







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Feb 1/1



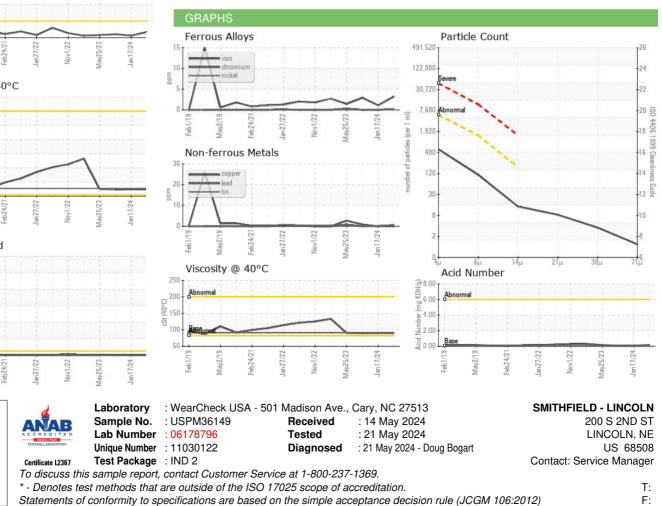
NONE

Bottom

White Metal

Yellow Metal

Precipitate



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Contact/Location: Service Manager - SMILIN