

OIL ANALYSIS REPORT

Sample Rating Trend

VACUUM - RM 123A-RTE-LN 1 CRY N2D TOP (S/N N15091821)

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.

Fluid Condition

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

SAMPLE INFORM		method	limit/base	current	history1	history2
			IIIIIVDase			
Sample Number		Client Info		USPM30624	USPM29875	USPM18350
Sample Date		Client Info		04 Jan 2024	03 Oct 2023	29 Mar 2022
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	ABNORMAL	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	3	<1	9
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>7	<1	<1	<1
Lead	ppm	ASTM D5185m	>12	0	0	0
Copper	ppm	ASTM D5185m	>30	<1	0	0
Tin	ppm	ASTM D5185m	>9	<1	<1	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	le le		11	-		-
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	0	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	0	2	<1	0
Calcium	ppm	ASTM D5185m	0	0	<1	0
Phosphorus	ppm	ASTM D5185m	1800	4	1	1911
Zinc	ppm	ASTM D5185m	0	3	0	0
Sulfur	ppm	ASTM D5185m	0	0	19	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	21	27	2
Sodium	ppm	ASTM D5185m		<1	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
Water	%	ASTM D6304	>.1	0.025	0.038	▲ 0.985
ppm Water	ppm	ASTM D6304	>1000	258	387.0	▲ 9850
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	4 39771		
Particles >6µm		ASTM D7647		<u> </u>		
Particles >14µm		ASTM D7647		▲ 741		
Particles >21µm		ASTM D7647		<u> </u>		
Particles >38µm		ASTM D7647		4		
Particles >71µm		ASTM D7647		1		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	. 22/21/17		
	TION	()			bistowet	bistow 0
FLUID DEGRADA		method	limit/base	current	history1	history2
		ASTM D8045	0.05	0.21	0.44	0.25

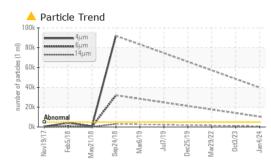
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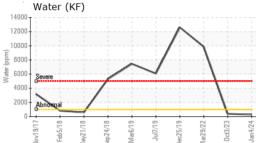
Contact/Location: ? ? - BOANEW

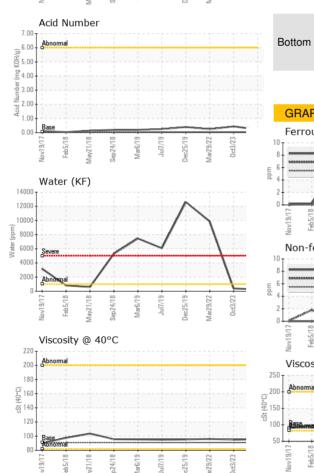
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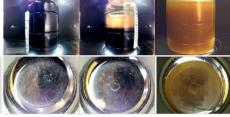
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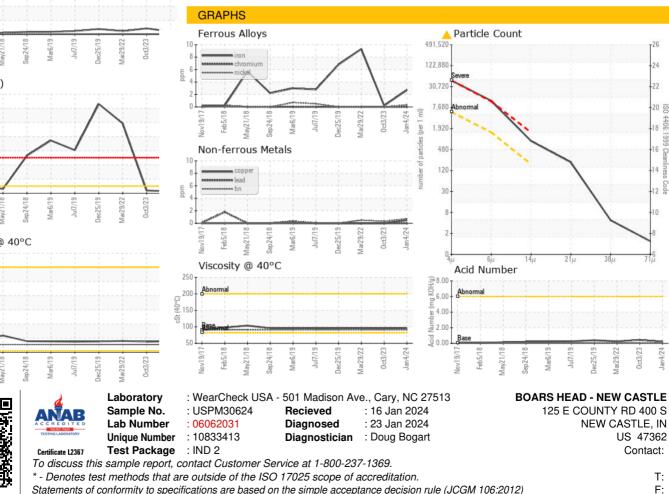






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	🔺 MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	MILKY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.1	NEG	NEG	▲ 0.2%
Free Water	scalar	*Visual		NEG	NEG	● >10%
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	91	95.6	95.0	96.0
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						





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

Contact/Location: ? ? - BOANEW

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