

OIL ANALYSIS REPORT



Machine Id

F465701 Component Plain Bearing Fluid ROYAL PURPLE SYNFILM GT 32 (32 Oz)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. 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. Elemental level of silicon (Si) above normal.

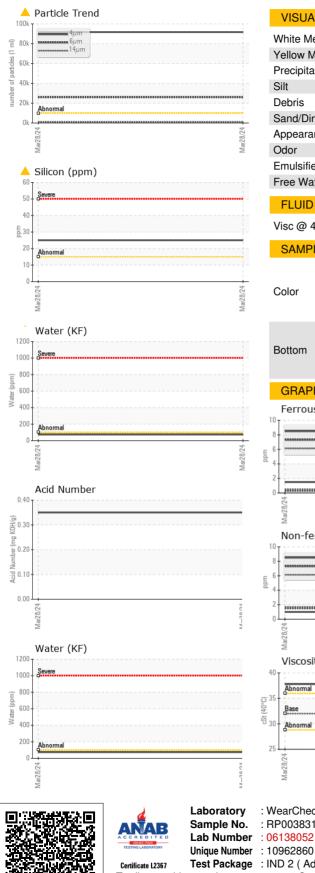
Fluid Condition

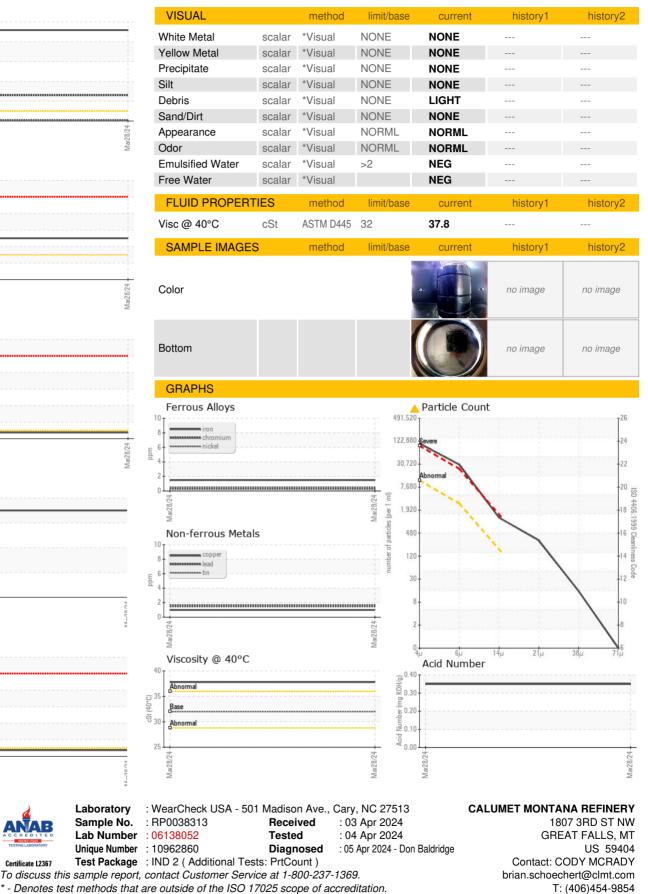
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0038313		
Sample Date		Client Info		28 Mar 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	2		
Chromium	ppm	ASTM D5185m	>20	- <1		
Nickel	ppm	ASTM D5185m	>20	<1		
Titanium	ppm	ASTM D5185m	220	<1		
Silver	ppm	ASTM D5185m		0		
Aluminum		ASTM D5185m	> 20	2		
Lead	ppm	ASTM D5185m	>20	2		
	ppm			2		
Copper	ppm		>20			
Tin	ppm	ASTM D5185m	>20	2		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		<1		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		78		
Calcium	ppm	ASTM D5185m		8		
Phosphorus	ppm	ASTM D5185m		6		
Zinc	ppm	ASTM D5185m		6		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	▲ 25		
Sodium	ppm	ASTM D5185m		4		
Potassium	ppm	ASTM D5185m	>20	44		
Water	%	ASTM D6304		0.007		
ppm Water	ppm	ASTM D6304	~ -	74		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm	200	ASTM D7647	>10000	▲ 91707		
Particles >6µm		ASTM D7647 ASTM D7647	>2500	▲ 25898		
Particles >14µm		ASTM D7647 ASTM D7647	>160	23898 1070		
Particles >21µm		ASTM D7647 ASTM D7647		▲ 1070 ▲ 272		
Particles >38µm		ASTM D7647 ASTM D7647	>40	▲ 272 ▲ 13		
		ASTM D7647 ASTM D7647		0		
Particles >71µm Oil Cleanliness			>3 >20/18/14	0		
		ISO 4406 (c)		_ 24/22/17		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.35		



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

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Contact/Location: CODY MCRADY - CALGREMT

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