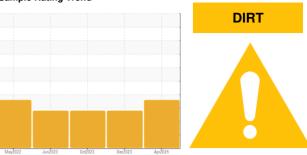


OIL ANALYSIS REPORT

Sample Rating Trend



Area BAGLINE **KETTLE 7 - BAG**

Bottom Refrigeration Compressor

Fluic PETRO CANADA PURITY FG SYNTH EP GEAR 220 (--- 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. Elemental level of silicon (Si) above normal.

Fluid Condition

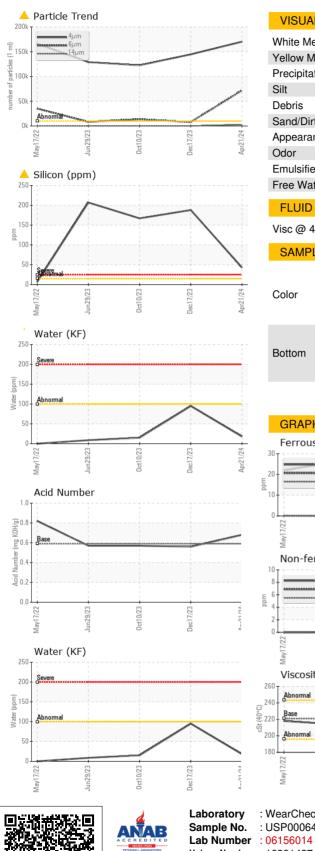
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0006495	USP0004480	USP0001365
Sample Date		Client Info		21 Apr 2024	17 Dec 2023	10 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				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	27	30	27
Chromium	ppm	ASTM D5185m	>2	<1	<1	<1
Nickel	ppm	ASTM D5185m		<1	0	0
Titanium	ppm	ASTM D5185m		1	2	2
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		2	4	3
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m		<1	0	0
Tin	ppm	ASTM D5185m	>4	<1	0	0
Vanadium	ppm	ASTM D5185m	-	<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		<1	0	2
Calcium	ppm	ASTM D5185m		8	10	16
Phosphorus	ppm	ASTM D5185m		573	609	610
Zinc	ppm	ASTM D5185m		5	0	0
Sulfur	ppm	ASTM D5185m		406	493	671
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	4 3	1 88	1 67
Sodium	ppm	ASTM D5185m		2	3	2
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water	%	ASTM D6304	>0.01	0.002	0.009	0.001
ppm Water	ppm	ASTM D6304	>100	18	95	15.0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm	IESS	ASTM D7647	>10000	170041	▲ 144610	▲ 122481
Particles >4μm Particles >6μm	ESS	ASTM D7647 ASTM D7647		▲ 170041▲ 71791		
Particles >4μm Particles >6μm Particles >14μm	IESS	ASTM D7647 ASTM D7647 ASTM D7647	>10000 >2500 >640	 170041 71791 2719 	▲ 144610	 122481 13757 140
Particles >4μm Particles >6μm Particles >14μm	IESS	ASTM D7647 ASTM D7647	>10000 >2500 >640	▲ 170041▲ 71791	1446107730	12248113757
Particles >4μm Particles >6μm Particles >14μm Particles >21μm	ESS	ASTM D7647 ASTM D7647 ASTM D7647	>10000 >2500 >640	 170041 71791 2719 	 144610 7730 22 	 122481 13757 140
Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ESS	ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>10000 >2500 >640 >160 >40	 170041 71791 2719 458 	 144610 7730 22 4 1 0 	 122481 13757 140 25 1 0
FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm Particles >21μm Particles >38μm Particles >71μm Oil Cleanliness	ESS	ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>10000 >2500 >640 >160 >40	 170041 71791 2719 458 9 	 144610 7730 22 4 1 	 122481 13757 140 25 1
Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm		ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>10000 >2500 >640 >160 >40 >10	 170041 71791 2719 458 9 1 	 144610 7730 22 4 1 0 	 122481 13757 140 25 1 0

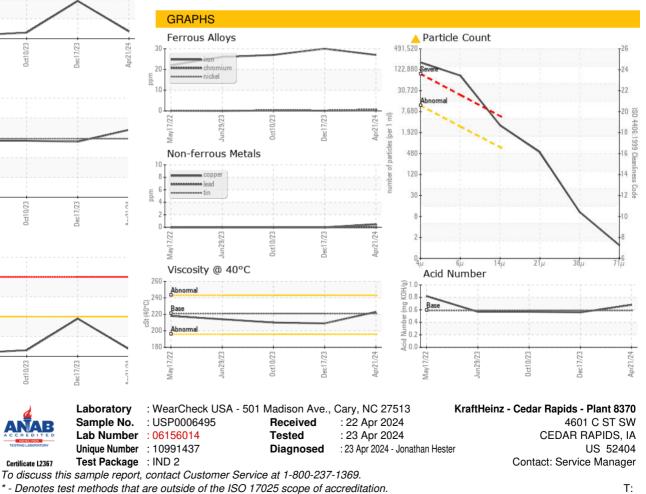
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OIL ANALYSIS REPORT



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	>0.01	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	221	223	209	210
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color						
Bottom						



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

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