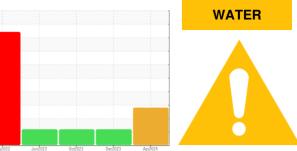


OIL ANALYSIS REPORT

Sample Rating Trend



BAGLINE **KETTLE 8 - BAG** Bottom Refrigeration Compressor

Fluic

PETRO CANADA PURITY FG SYNTH EP GEAR 220 (--- GAL)

DIAGNOSIS

Area

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

A Wear

The iron level is abnormal.

Contamination

Moderate concentration of visible dirt/debris present in the oil. There is a trace of moisture present in the oil.

Fluid Condition

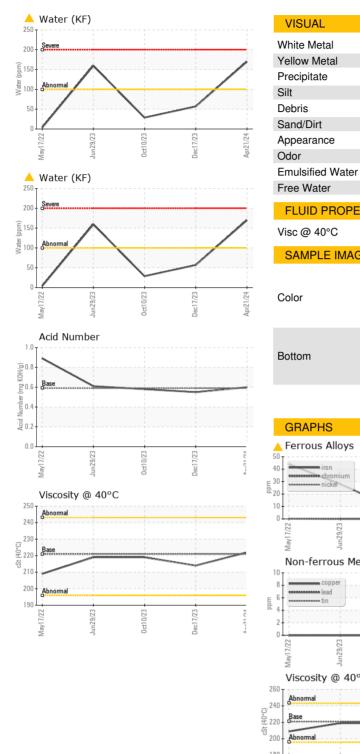
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0006484	USP0004472	USP0001364
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	A 32	8	10
Chromium	ppm		>2	<1	0	0
Nickel	ppm	ASTM D5185m		<1	0	0
Titanium	ppm	ASTM D5185m		<1	1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		2	4	4
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m		<1	0	0
Tin	ppm	ASTM D5185m	>4	<1	0	<1
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	0	<1
Magnesium	ppm	ASTM D5185m		1	0	1
Calcium	ppm	ASTM D5185m		7	6	11
Phosphorus	ppm	ASTM D5185m		567	565	566
Zinc	ppm	ASTM D5185m		4	0	0
Sulfur	ppm	ASTM D5185m		441	445	501
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	6	9	7
Sodium	ppm	ASTM D5185m		2	3	2
Potassium	ppm	ASTM D5185m	>20	1	0	0
Water	%	ASTM D6304	>0.01	6 0.017	0.005	0.003
ppm Water	ppm	ASTM D6304	>100	170	57	28.7
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000		▲ 78095	▲ 57058
Particles >6µm		ASTM D7647	>2500		A 8160	5 312
Particles >14µm		ASTM D7647	>640		62	80
Particles >21µm		ASTM D7647	>160		9	16
Particles >38µm		ASTM D7647	>40		1	2
Particles >71µm		ASTM D7647	>10		0	1
Oil Cleanliness		ISO 4406 (c)	>20/18/16		A 23/20/13	2 3/20/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.59	0.60	0.55	0.58

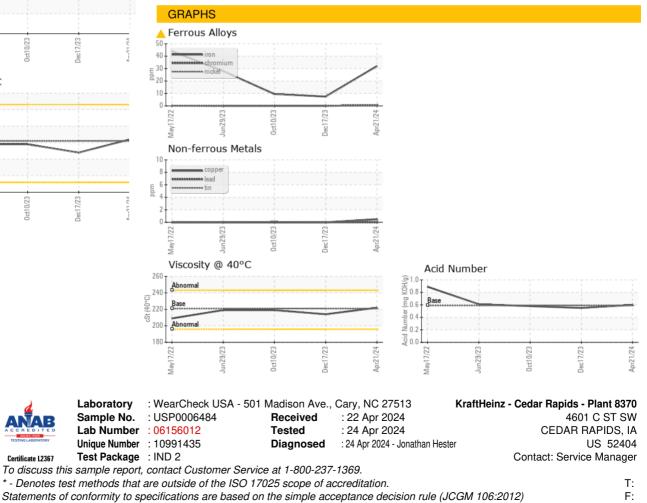
Contact/Location: Service Manager - KRACED Page 1 of 2



OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
Vhite Metal	scalar	*Visual	NONE	NONE	NONE	NONE
ellow 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
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
ppearance	scalar	*Visual	NORML	NORML	NORML	NORML
Ddor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.01	0.2%	NEG	NEG
ree Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
/isc @ 40°C	cSt	ASTM D445	221	222	214	219
SAMPLE IMAGES	5	method	limit/base	current	history1	history2
Color					•	
Bottom						



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