

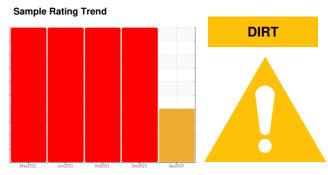
OIL ANALYSIS REPORT

BAGLINE

KETTLE 1 - BAG

Bottom Refrigeration Compressor

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



DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

The iron level has decreased, but is still abnormal.

Contamination

There is a high amount of particulates present in the oil. Elemental level of silicon (Si) above normal.

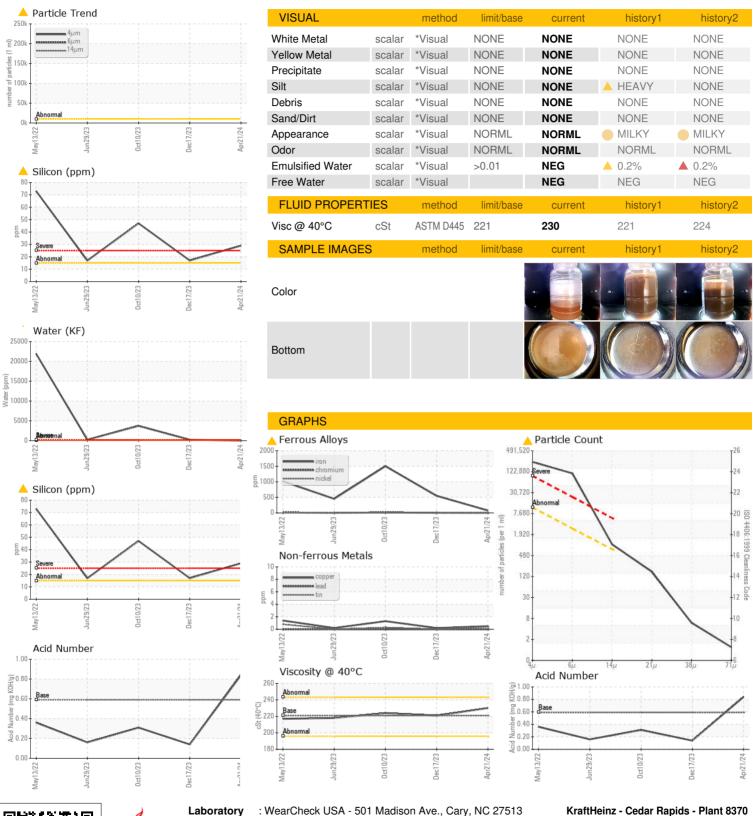
Fluid Condition

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

LAN 220 (GA	_,					
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0006488	USP0004471	USP0001366
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	SEVERE	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	^ 76	▲ 549	1 501
Chromium	ppm	ASTM D5185m	>2	<1	<u>4</u>	▲ 11
Nickel	ppm	ASTM D5185m		<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	2	0	<1
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	<1	<1	1
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	<1
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	3	8
Magnesium	ppm	ASTM D5185m		<1	0	4
Calcium	ppm	ASTM D5185m		6	0	8
Phosphorus	ppm	ASTM D5185m		573	440	483
Zinc	ppm	ASTM D5185m		4	0	0
Sulfur	ppm	ASTM D5185m		392	385	421
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	nnm	ASTM D5185m		<u>^</u> 29	▲ 17	▲ 47
Sodium	ppm	ASTM D5185m	>10	2	5	12
Potassium	ppm	ASTM D5185m	>20	1	<1	2
	ppm			0.00	△ 0.022	
Water ppm Water	% ppm	ASTM D6304 ASTM D6304		0.00	▲ 220	▲ 0.371 ▲ 3710
FLUID CLEANLIN		method	limit/base		history1	history2
Particles >4µm		ASTM D7647	>10000	▲ 200935		
Particles >6µm		ASTM D7647	>2500	△ 94796		
Particles >14µm		ASTM D7647	>640	<u>▲</u> 884		
Particles >21μm		ASTM D7647	>160	145		
Particles >38μm		ASTM D7647	>40	5		
Particles >71μm		ASTM D7647	>10	1		
Oil Cleanliness		ISO 4406 (c)	>20/18/16	<u>^</u> 25/24/17		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974		0.839	0.14	0.31
, tota Harriber (AIN)	ilig NOI i/g	AUTIVI DUT4	0.00	0.003	0.14	0.01



OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No. Lab Number

: 06156021

: USP0006488 Unique Number : 10991444 Test Package : IND 2

Received : 22 Apr 2024 **Tested**

: 23 Apr 2024 Diagnosed : 24 Apr 2024 - Jonathan Hester

KraftHeinz - Cedar Rapids - Plant 8370

4601 C ST SW CEDAR RAPIDS, IA US 52404

Contact: Service Manager

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

T:

F: