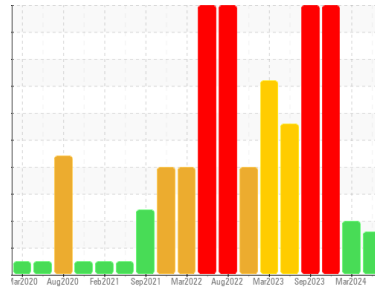


OIL ANALYSIS REPORT

Area
GRIND ROOM [98996223]
 Machine Id
KR-GR-002490 - INCLINE AUGER 6A (S/N GRIND A - 11513017)
 Component
Gearbox
 Fluid
PETRO CANADA 220 (17 QTS)

Sample Rating Trend



DIAGNOSIS

Recommendation
 We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample at the next service interval to monitor. (Customer Sample Comment: 98996223)

Wear
 All component wear rates are normal.

Contamination
 There is a high amount of particulates 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 INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0122298	PCA0116079	PCA0110819
Sample Date	Client Info	24 May 2024	14 Mar 2024	12 Nov 2023
Machine Age	hrs	0	0	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	Not Chngd	N/A	N/A
Sample Status		ABNORMAL	ABNORMAL	SEVERE

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >200	7	5	▲ 1916
Chromium	ppm ASTM D5185m >15	<1	<1	▲ 20
Nickel	ppm ASTM D5185m >15	0	0	<1
Titanium	ppm ASTM D5185m	<1	<1	0
Silver	ppm ASTM D5185m	0	0	0
Aluminum	ppm ASTM D5185m >25	2	3	<1
Lead	ppm ASTM D5185m >100	<1	<1	0
Copper	ppm ASTM D5185m >200	<1	2	<1
Tin	ppm ASTM D5185m >25	<1	<1	0
Vanadium	ppm ASTM D5185m	0	<1	0
Cadmium	ppm ASTM D5185m	0	<1	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	3	4	0
Barium	ppm ASTM D5185m	<1	<1	6
Molybdenum	ppm ASTM D5185m	1	<1	0
Manganese	ppm ASTM D5185m	<1	0	5
Magnesium	ppm ASTM D5185m	2	2	<1
Calcium	ppm ASTM D5185m	711	609	4
Phosphorus	ppm ASTM D5185m	435	448	363
Zinc	ppm ASTM D5185m	2	2	0
Sulfur	ppm ASTM D5185m	2970	2819	1031

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >50	4	4	7
Sodium	ppm ASTM D5185m	1	<1	0
Potassium	ppm ASTM D5185m >20	2	1	<1

FLUID CLEANLINESS

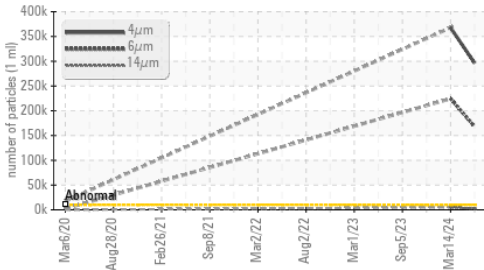
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	▲ 296227	▲ 367925	---
Particles >6µm	ASTM D7647 >2500	▲ 167960	▲ 224497	---
Particles >14µm	ASTM D7647 >640	▲ 2311	▲ 4968	---
Particles >21µm	ASTM D7647 >160	144	▲ 241	---
Particles >38µm	ASTM D7647 >40	1	1	---
Particles >71µm	ASTM D7647 >10	0	0	---
Oil Cleanliness	ISO 4406 (c) >20/18/16	▲ 25/25/18	▲ 26/25/19	---

FLUID DEGRADATION

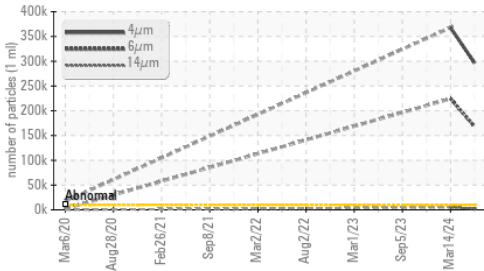
method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045	0.37	0.43	0.28

OIL ANALYSIS REPORT

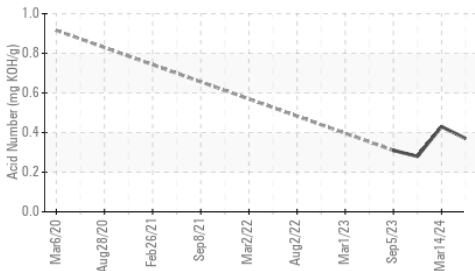
▲ Particle Trend



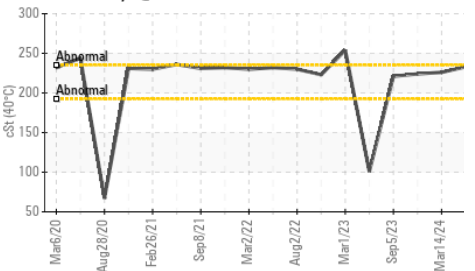
▲ Particle Trend



Acid Number



Viscosity @ 40°C



PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	▲ HEAVY
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	● MILKY
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	0.2%
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	233	226	224

SAMPLE IMAGES	method	limit/base	current	history1	history2
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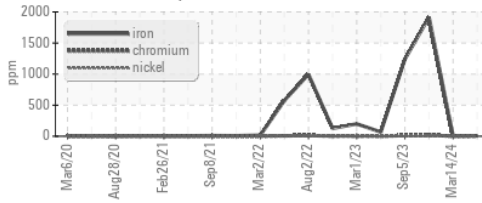
Color



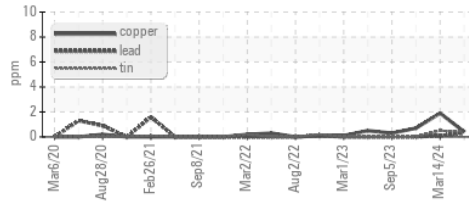
Bottom

GRAPHS

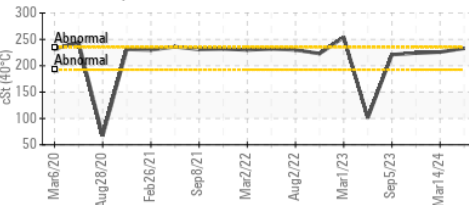
Ferrous Alloys



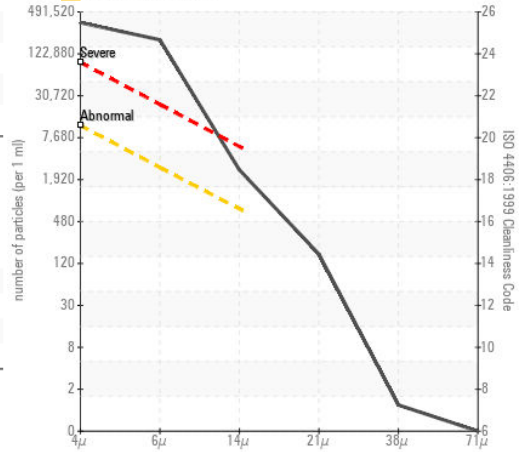
Non-ferrous Metals



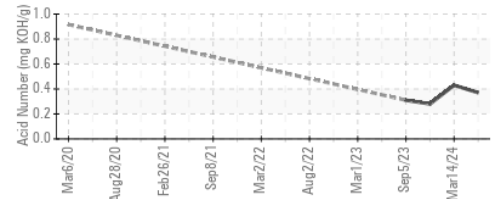
Viscosity @ 40°C



▲ Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : PCA0122298

Lab Number : 06195360

Unique Number : 11057483

Test Package : IND 2 (Additional Tests: PrtCount)

Received : 30 May 2024

Tested : 31 May 2024

Diagnosed : 31 May 2024 - Angela Borella

KraftHeinz - Kirksville - Plant 8333 PCA

2504 INDUSTRIAL DR

KIRKSVILLE, MO

US 63501

Contact: WALLACE WARD

wallace.ward@kraftheinzcompany.com

T: (660)627-1031

F: (660)627-5887

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)