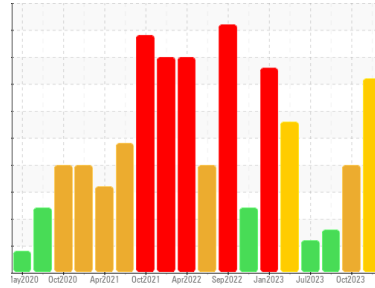


PROBLEM SUMMARY

Area
MIX ROOM D [98737429]
Machine Id
KR-GR-000325-NORTH - 15000 LB MIXER (S/N MIX D - 11513074)
Component
Gear Reducer
Fluid
PETRO CANADA 220 (48 LTR)

Sample Rating Trend



WATER



COMPONENT CONDITION SUMMARY

▲ Water (KF)



RECOMMENDATION

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. (Customer Sample Comment: 98737429)

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	SEVERE	ABNORMAL
Water	%	ASTM D6304	>0.1	▲ 0.472	● 1.17	▲ 0.713
ppm Water	ppm	ASTM D6304	>1000	▲ 4723	● 11700	▲ 7130
Emulsified Water	scalar	*Visual	>0.1	▲ 0.2%	● 0.2%	0.2%
Free Water	scalar	*Visual		● >10%	NEG	NEG

Customer Id: KRAKIR
Sample No.: PCA0108441
Lab Number: 06070451
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Water Drain-off	---	---	?	We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

20 Oct 2023 Diag: Jonathan Hester

WATER



We advise that you check for the source of water entry. We recommend an early resample to monitor this condition. All component wear rates are normal. Appearance is milky. There is a high concentration of water present in the oil. The AN level is acceptable for this fluid.

[view report](#)



16 Aug 2023 Diag: Jonathan Hester

WATER



We advise that you check for the source of water entry. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate concentration of water present in the oil. The condition of the oil is acceptable for the time in service.

[view report](#)



31 Jul 2023 Diag: Jonathan Hester

VISCOSITY

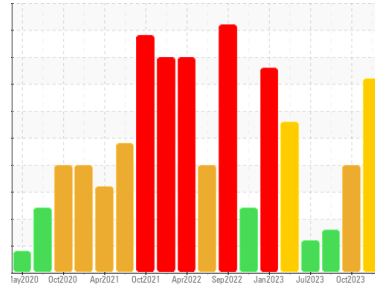


No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 68 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

[view report](#)



Area
MIX ROOM D [98737429]
Machine Id
KR-GR-000325-NORTH - 15000 LB MIXER (S/N MIX D - 11513074)
Component
Gear Reducer
Fluid
PETRO CANADA 220 (48 LTR)



DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. (Customer Sample Comment: 98737429)

Wear

All component wear rates are normal.

Contamination

Excessive free water present. There is a moderate concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

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	PCA0108441	PCA0108232	PCA0101928
Sample Date	Client Info	22 Jan 2024	20 Oct 2023	16 Aug 2023
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		SEVERE	SEVERE	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >150	75	62	46
Chromium	ppm	ASTM D5185m >10	0	<1	<1
Nickel	ppm	ASTM D5185m >10	0	2	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	<1	0
Aluminum	ppm	ASTM D5185m >25	0	1	0
Lead	ppm	ASTM D5185m >100	0	1	0
Copper	ppm	ASTM D5185m >50	0	0	0
Tin	ppm	ASTM D5185m >10	<1	2	<1
Vanadium	ppm	ASTM D5185m	0	<1	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	<1	0
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	1	8	0
Manganese	ppm	ASTM D5185m	<1	1	<1
Magnesium	ppm	ASTM D5185m	0	5	2
Calcium	ppm	ASTM D5185m	6	13	6
Phosphorus	ppm	ASTM D5185m	344	426	431
Zinc	ppm	ASTM D5185m	11	2	0
Sulfur	ppm	ASTM D5185m	1095	2011	1359

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >50	2	4	3
Sodium	ppm	ASTM D5185m	4	4	2
Potassium	ppm	ASTM D5185m >20	2	5	1
Water	%	ASTM D6304 >0.1	▲ 0.472	● 1.17	▲ 0.713
ppm Water	ppm	ASTM D6304 >1000	▲ 4723	● 11700	▲ 7130

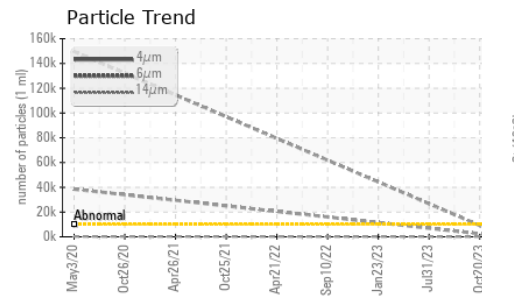
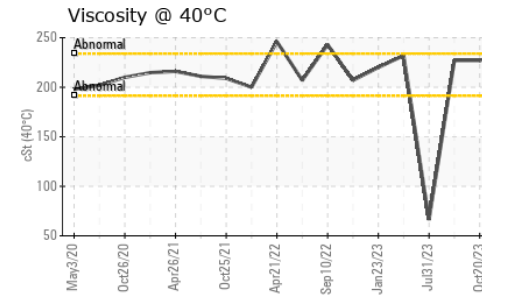
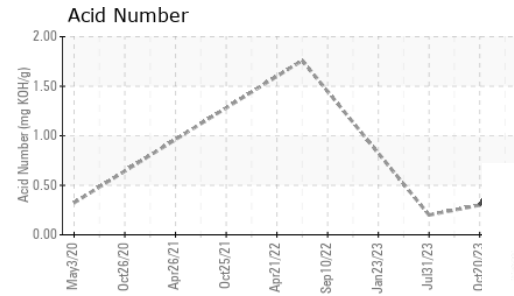
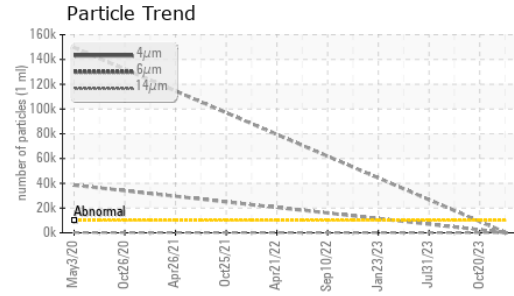
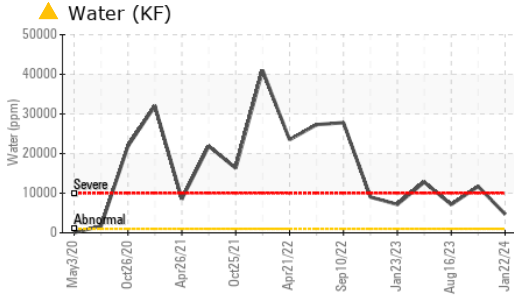
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	400	---	---
Particles >6µm	ASTM D7647 >2500	218	---	---
Particles >14µm	ASTM D7647 >640	37	---	---
Particles >21µm	ASTM D7647 >160	12	---	---
Particles >38µm	ASTM D7647 >40	2	---	---
Particles >71µm	ASTM D7647 >10	0	---	---
Oil Cleanliness	ISO 4406 (c) >20/18/16	16/15/12	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.617	0.30	---

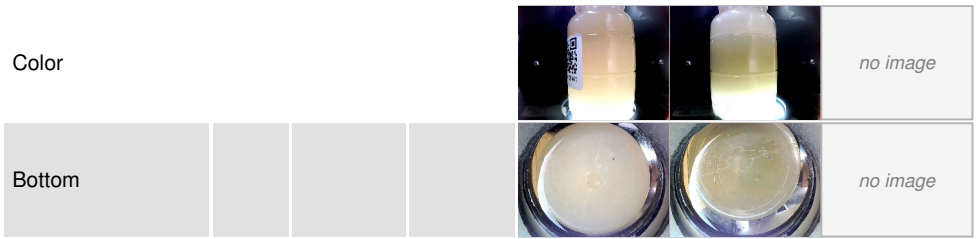
OIL ANALYSIS REPORT



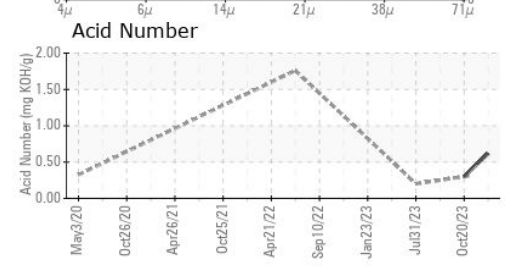
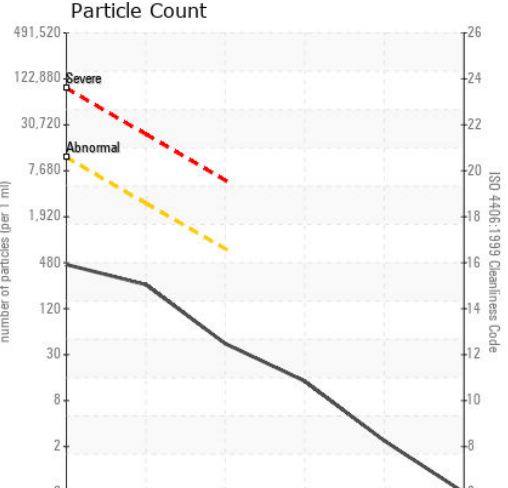
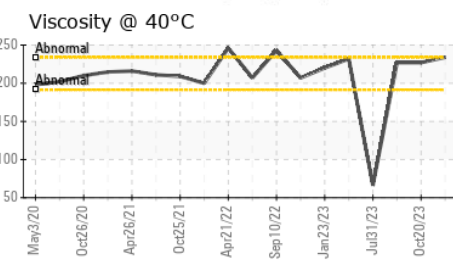
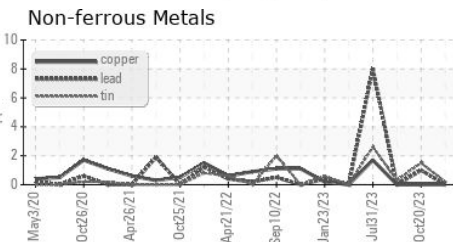
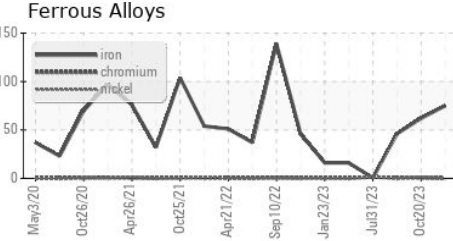
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	▲ LAYRD	▲ MILKY
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	▲ 0.2%	● 0.2%
Free Water	scalar	*Visual		● >10%	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	234	227	227

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0108441 **Received** : 25 Jan 2024
Lab Number : 06070451 **Diagnosed** : 02 Feb 2024
Unique Number : 10847128 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, PrtCount)

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)