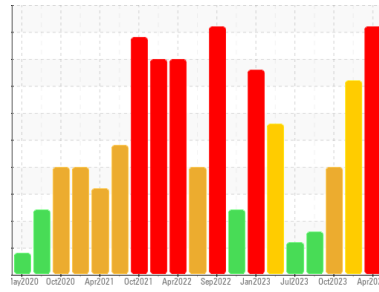




PROBLEM SUMMARY

Sample Rating Trend



WATER



Area

MIX ROOM D [98937084]

Machine Id

KR-GR-000325-NORTH - 15000 LB MIXER (S/N MIX D - 11513074)

Component

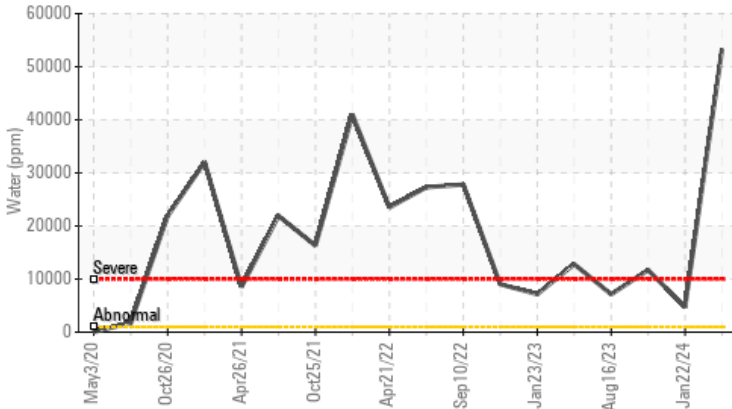
Gear Reducer

Fluid

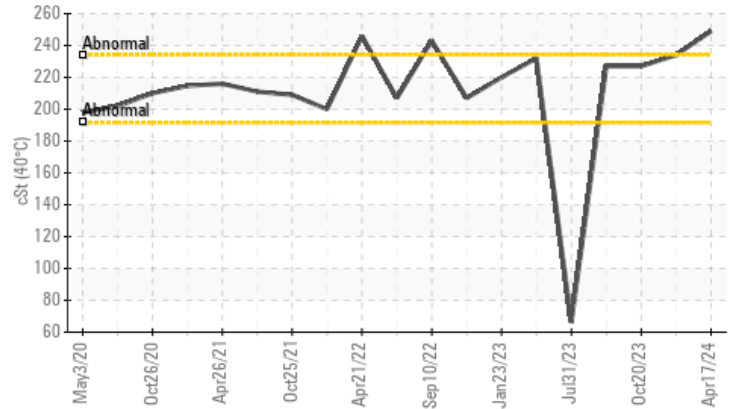
PETRO CANADA 220 (48 LTR)

COMPONENT CONDITION SUMMARY

▲ Water (KF)



▲ Viscosity @ 40°C



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. There is too much water present in this sample to perform a particle count. (Customer Sample Comment: 98937084)

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	SEVERE	SEVERE
Water	%	ASTM D6304	>0.1	▲ 5.33	▲ 0.472	▲ 1.17
ppm Water	ppm	ASTM D6304	>1000	▲ 53300	▲ 4723	▲ 11700
Emulsified Water	scalar	*Visual	>0.1	▲ 0.2%	▲ 0.2%	▲ 0.2%
Free Water	scalar	*Visual		▲ >10%	▲ >10%	NEG
Visc @ 40°C	cSt	ASTM D445		▲ 249	234	227

Customer Id: KRAKIR
 Sample No.: PCA0114144
 Lab Number: 06155878
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

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

WATER



22 Jan 2024 Diag: Jonathan Hester

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. All component wear rates are normal. 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. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



WATER



20 Oct 2023 Diag: Jonathan Hester

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



WATER

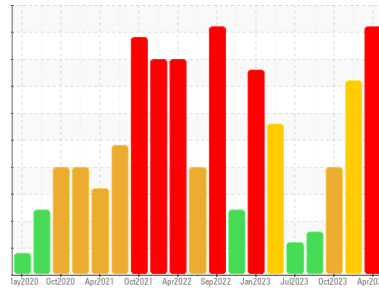


16 Aug 2023 Diag: Jonathan Hester

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





Area

MIX ROOM D [98937084]

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. There is too much water present in this sample to perform a particle count. (Customer Sample Comment: 98937084)

Wear

All component wear rates are normal.

▲ Contamination

There is a high concentration of water present in the oil. Excessive free water present.

▲ Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0114144	PCA0108441	PCA0108232
Sample Date	Client Info	17 Apr 2024	22 Jan 2024	20 Oct 2023
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	Not Chngd	N/A	N/A
Sample Status		SEVERE	SEVERE	SEVERE

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >150	144	75	62
Chromium	ppm	ASTM D5185m >10	2	0	<1
Nickel	ppm	ASTM D5185m >10	0	0	2
Titanium	ppm	ASTM D5185m	<1	0	0
Silver	ppm	ASTM D5185m	0	0	<1
Aluminum	ppm	ASTM D5185m >25	<1	0	1
Lead	ppm	ASTM D5185m >100	<1	0	1
Copper	ppm	ASTM D5185m >50	<1	0	0
Tin	ppm	ASTM D5185m >10	2	<1	2
Vanadium	ppm	ASTM D5185m	<1	0	<1
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	2	0	<1
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	18	1	8
Manganese	ppm	ASTM D5185m	1	<1	1
Magnesium	ppm	ASTM D5185m	1	0	5
Calcium	ppm	ASTM D5185m	13	6	13
Phosphorus	ppm	ASTM D5185m	345	344	426
Zinc	ppm	ASTM D5185m	11	11	2
Sulfur	ppm	ASTM D5185m	3611	1095	2011

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >50	3	2	4
Sodium	ppm	ASTM D5185m	3	4	4
Potassium	ppm	ASTM D5185m >20	3	2	5
Water	%	ASTM D6304 >0.1	▲ 5.33	▲ 0.472	▲ 1.17
ppm Water	ppm	ASTM D6304 >1000	▲ 53300	▲ 4723	▲ 11700

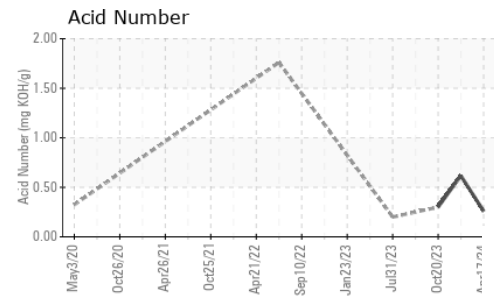
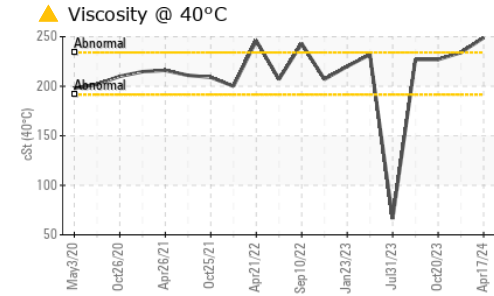
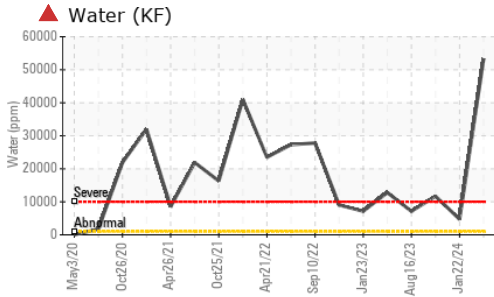
FLUID CLEANLINESS

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	0.26	0.617	0.30

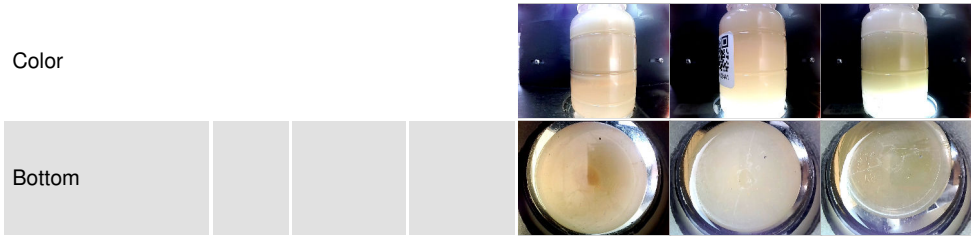
OIL ANALYSIS REPORT



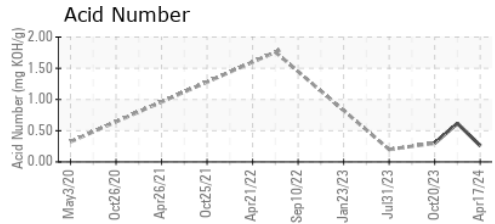
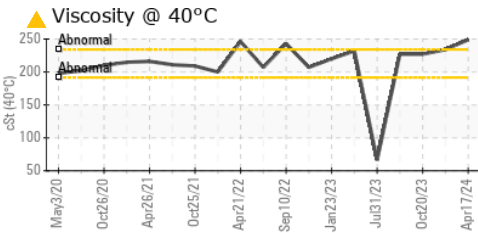
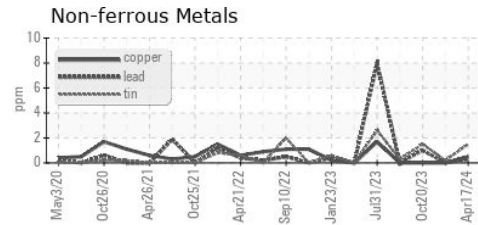
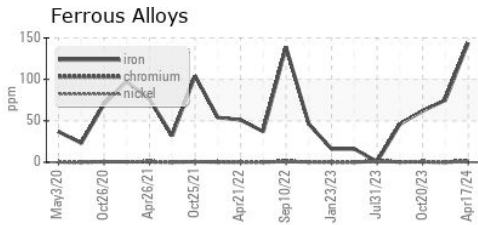
PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	MODER	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	249	234	227

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0114144 **Received** : 22 Apr 2024
Lab Number : **06155878** **Tested** : 24 Apr 2024
Unique Number : 10991301 **Diagnosed** : 24 Apr 2024 - Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PftCount)

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)