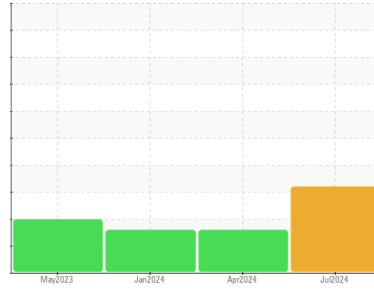


OIL ANALYSIS REPORT

Area
MIX ROOM A [99141886]
 Machine Id
KR-GR-003472 - TRANSFER HOPPER (S/N MIX A - 11535133)
 Component
Gearbox
 Fluid
PETRO CANADA 220 (--- QTS)

Sample Rating Trend



WATER



DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We recommend you service the filters on this component if applicable. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample. (Customer Sample Comment: 99141886)

Wear

All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present in the oil. There is a moderate concentration of water present in the oil.

Fluid Condition

The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PCA0123667	PCA0055961	PCA0114838
Sample Date	Client Info			09 Jul 2024	17 Apr 2024	02 Jan 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed	Client Info			Not Changed	Not Changed	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	49	34	35
Chromium	ppm	ASTM D5185m	>15	1	0	<1
Nickel	ppm	ASTM D5185m	>15	<1	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	0	1
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	0	<1	<1
Tin	ppm	ASTM D5185m	>25	0	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0

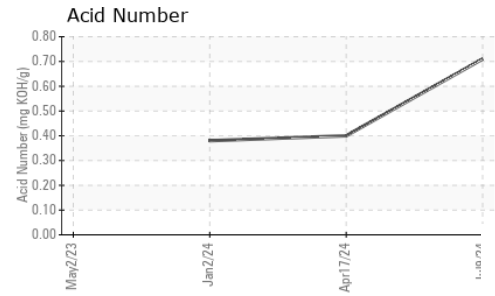
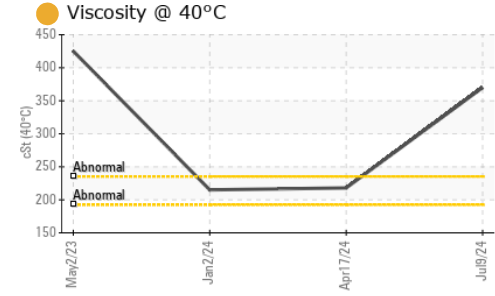
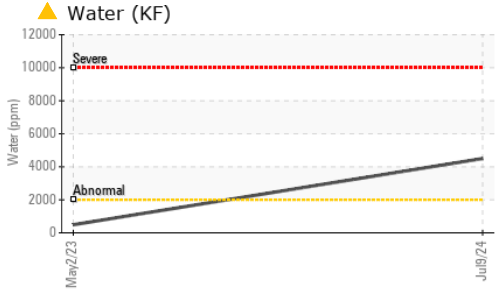
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		5	0	0
Barium	ppm	ASTM D5185m		0	0	11
Molybdenum	ppm	ASTM D5185m		168	0	<1
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		3	<1	0
Calcium	ppm	ASTM D5185m		47	2	2
Phosphorus	ppm	ASTM D5185m		608	356	394
Zinc	ppm	ASTM D5185m		30	4	3
Sulfur	ppm	ASTM D5185m		9813	2551	2280

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	11	3	2
Sodium	ppm	ASTM D5185m		3	<1	0
Potassium	ppm	ASTM D5185m	>20	0	<1	2
Water	%	ASTM D6304	>0.2	▲ 0.450	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 4500	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	---	▲ 99484	▲ 124507	
Particles >6µm	ASTM D7647	>2500	---	▲ 36727	▲ 37096	
Particles >14µm	ASTM D7647	>640	---	▲ 789	● 686	
Particles >21µm	ASTM D7647	>160	---	105	99	
Particles >38µm	ASTM D7647	>40	---	2	1	
Particles >71µm	ASTM D7647	>10	---	1	0	
Oil Cleanliness	ISO 4406 (c)	>20/18/16	---	▲ 24/22/17	▲ 24/22/17	

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.71	0.40	0.38

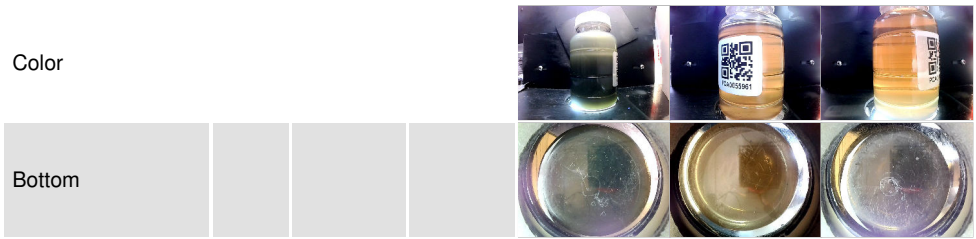
OIL ANALYSIS REPORT



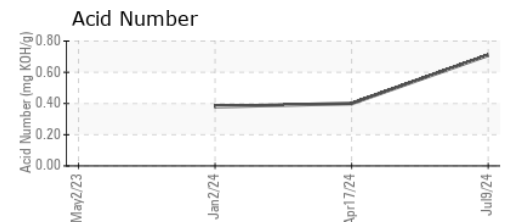
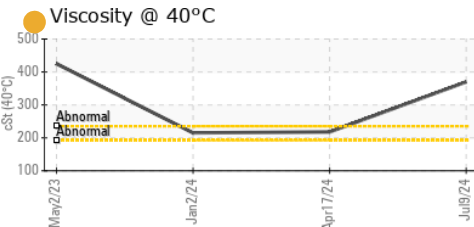
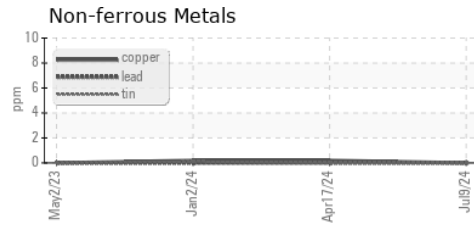
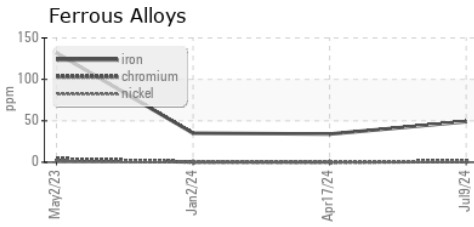
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	▲ MODER	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	● 370	218	215

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0123667 **Received** : 11 Jul 2024
Lab Number : 06233243 **Tested** : 13 Jul 2024
Unique Number : 11116736 **Diagnosed** : 13 Jul 2024 - Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PriCount)

KraftHeinz - Kirksville - Plant 8333 PCA
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 KIRKSVILLE, MO
 US 63501
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 wallace.ward@kraftheinzcompany.com
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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)