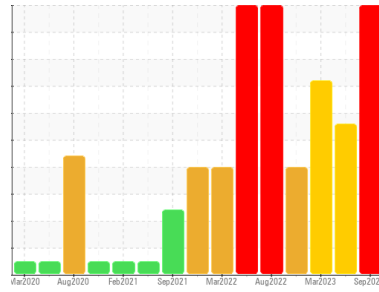


PROBLEM SUMMARY

Sample Rating Trend



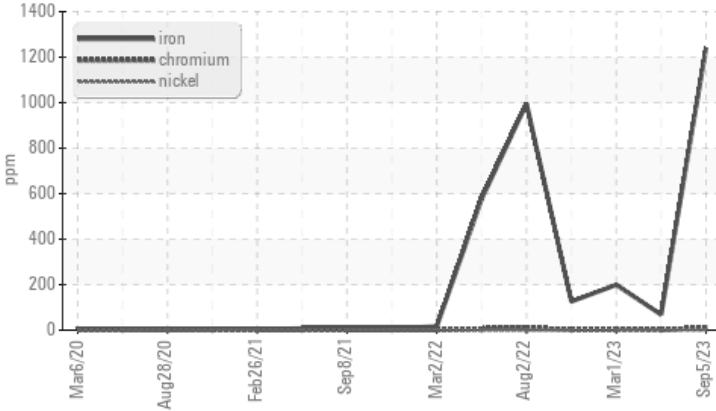
WEAR



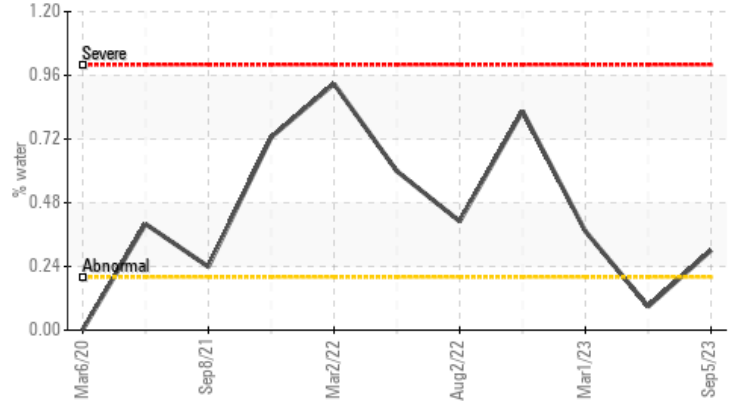
Area
[98405826]
 Machine Id
KR-GR-002490 - INCLINE AUGER 6A (S/N GRIND A - 11513017)
 Component
Gearbox
 Fluid
PETRO CANADA 220 (17 QTS)

COMPONENT CONDITION SUMMARY

Ferrous Alloys



Water



RECOMMENDATION

We advise that you check for the source of water entry. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	SEVERE	SEVERE
Iron	ppm	ASTM D5185m	>200	🔴 1240	68	199
Chromium	ppm	ASTM D5185m	>15	🟡 12	<1	2
Water	%	ASTM D6304	>0.2	🟡 0.301	0.089	🟡 0.373
ppm Water	ppm	ASTM D6304	>2000	🟡 3010	890	🟡 3730
Silt	scalar	*Visual	NONE	🟡 HEAVY	MODER	NONE
Debris	scalar	*Visual	NONE	🟡 MODER	🟡 MODER	NONE
Appearance	scalar	*Visual	NORML	🟡 MILKY	NORML	🟡 MILKY

Customer Id: KRAKIR
 Sample No.: PCA0102548
 Lab Number: 05945705
 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
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
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

29 May 2023 Diag: Jonathan Hester

WATER



We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition. All component wear rates are normal. Excessive free water present. Moderate concentration of visible dirt/debris present in the oil. Viscosity of sample indicates oil is within ISO 100 range, advise investigate. Confirm oil type.

view report



01 Mar 2023 Diag: Don Baldrige

WATER



We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a light concentration of water present in the oil. Excessive free water present. The oil is no longer serviceable due to the presence of contaminants.

view report



29 Nov 2022 Diag: Don Baldrige

WATER



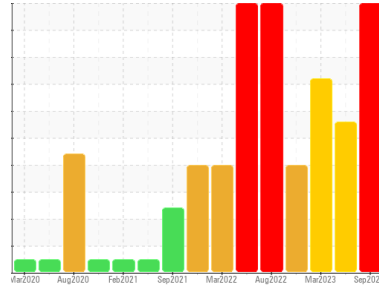
We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition. All component wear rates are normal. Appearance is milky. There is a moderate concentration of water present in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

view report



OIL ANALYSIS REPORT

Sample Rating Trend



Area
[98405826]
 Machine Id
KR-GR-002490 - INCLINE AUGER 6A (S/N GRIND A - 11513017)
 Component
Gearbox
 Fluid
PETRO CANADA 220 (17 QTS)

DIAGNOSIS

Recommendation
 We advise that you check for the source of water entry. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Wear
 Gear wear is indicated.

Contamination
 Appearance is milky. There is a light concentration of water present in the oil. There is a high amount of visible silt present in the sample. Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition
 The AN level is acceptable for this fluid.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0102548	PCA0097834	PCA0080620
Sample Date	Client Info	05 Sep 2023	29 May 2023	01 Mar 2023
Machine Age	hrs	0	0	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		SEVERE	SEVERE	SEVERE

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >200	1240	68	199
Chromium	ppm	ASTM D5185m >15	12	<1	2
Nickel	ppm	ASTM D5185m >15	0	<1	0
Titanium	ppm	ASTM D5185m	0	0	<1
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	3	0	<1
Lead	ppm	ASTM D5185m >100	0	0	0
Copper	ppm	ASTM D5185m >200	<1	<1	<1
Tin	ppm	ASTM D5185m >25	0	0	0
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	0
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0
Manganese	ppm	ASTM D5185m	4	<1	<1
Magnesium	ppm	ASTM D5185m	0	<1	<1
Calcium	ppm	ASTM D5185m	0	1	6
Phosphorus	ppm	ASTM D5185m	434	634	386
Zinc	ppm	ASTM D5185m	0	3	3
Sulfur	ppm	ASTM D5185m	1291	1849	977

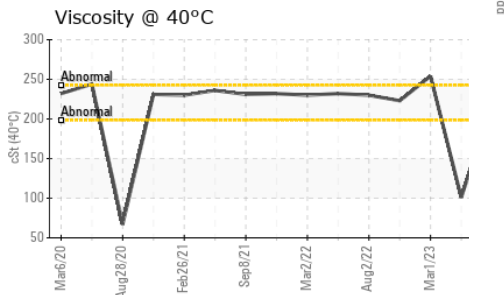
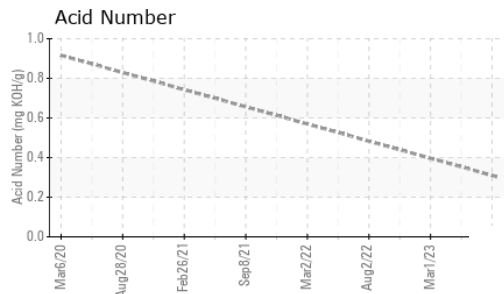
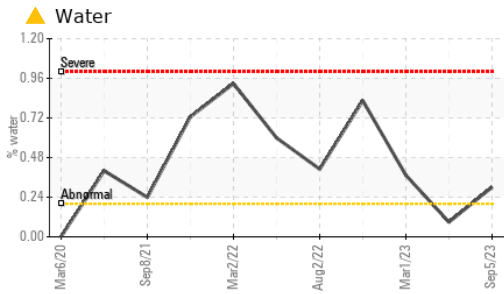
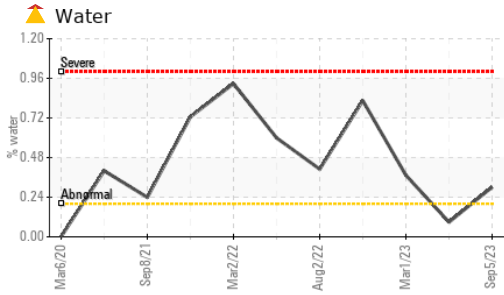
CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >50	6	5	6
Sodium	ppm	ASTM D5185m	<1	0	<1
Potassium	ppm	ASTM D5185m >20	0	<1	2
Water	%	ASTM D6304 >0.2	0.089	0.089	0.373
ppm Water	ppm	ASTM D6304 >2000	3010	890	3730

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.31	---	---

OIL ANALYSIS REPORT



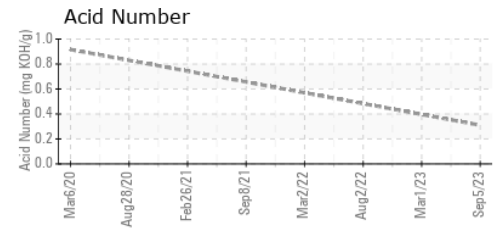
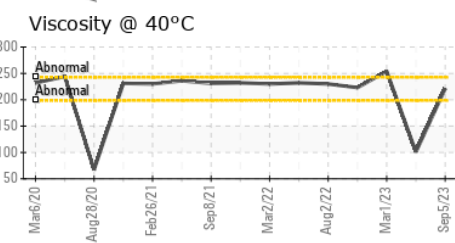
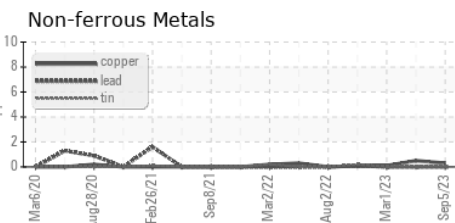
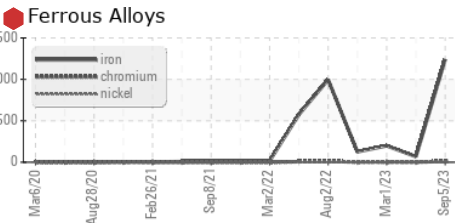
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	▲ HEAVY	MODER
Debris	scalar	*Visual	NONE	▲ MODER	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	▲ MILKY	▲ MILKY
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	0.2%	▲ 0.2%
Free Water	scalar	*Visual		NEG	10.0

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	221	▲ 101	254

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0102548 **Received** : 08 Sep 2023
Lab Number : 05945705 **Diagnosed** : 13 Sep 2023
Unique Number : 10636317 **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)