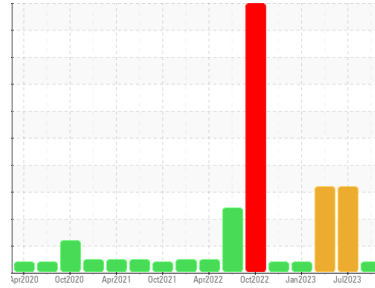


# PROBLEM SUMMARY

Area  
**[98482572]**  
 Machine Id  
**KR-GR-002931 - GRINDER A2 (WEST) (S/N GRIND A - 11513024)**  
 Component  
**Gearbox**  
 Fluid  
**PETRO CANADA 220 (6 QTS)**

Sample Rating Trend

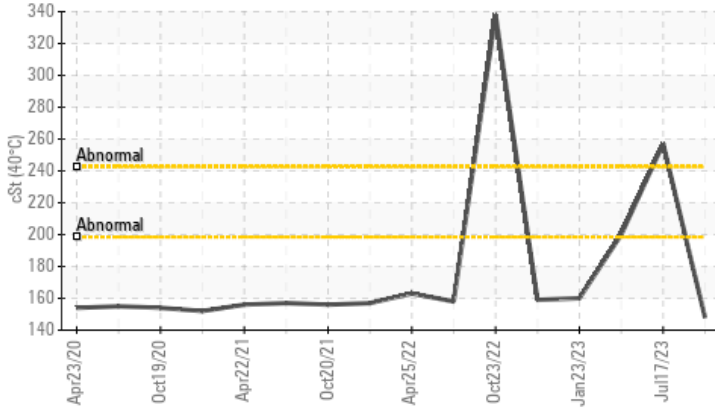


## VISCOSITY



### COMPONENT CONDITION SUMMARY

▲ Viscosity @ 40°C



### RECOMMENDATION

Resample at the next service interval to monitor.

### PROBLEMATIC TEST RESULTS

Sample Status			ATTENTION	SEVERE	SEVERE
Visc @ 40°C	cSt	ASTM D445	▲ 148	257	200

Customer Id: KRAKIR  
 Sample No.: PCA0091775  
 Lab Number: 05987058  
 Test Package: IND 1



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](mailto:jhester@wearcheckusa.com)

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

## RECOMMENDED ACTIONS

There are no recommended actions for this sample.

## HISTORICAL DIAGNOSIS

**17 Jul 2023 Diag: Jonathan Hester**

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 high concentration of water present in the oil. The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

view report



**24 Apr 2023 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. There is a high concentration of water present in the oil. The condition of the oil is acceptable for the time in service.

view report



**23 Jan 2023 Diag: Don Baldrige**

VISCOSITY



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 150 range, advise investigate. Confirm oil type.

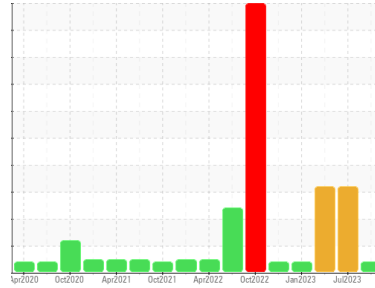
view report



# OIL ANALYSIS REPORT

Area  
**[98482572]**  
 Machine Id  
**KR-GR-002931 - GRINDER A2 (WEST) (S/N GRIND A - 11513024)**  
 Component  
**Gearbox**  
 Fluid  
**PETRO CANADA 220 (6 QTS)**

Sample Rating Trend



## VISCOSITY



### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

Viscosity of sample indicates oil is within ISO 150 range, advise investigate. Confirm oil type.

### SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PCA0091775</b>	PCA0101719	PCA0094062
Sample Date	Client Info	<b>23 Oct 2023</b>	17 Jul 2023	24 Apr 2023
Machine Age	hrs	<b>0</b>	0	0
Oil Age	hrs	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>ATTENTION</b>	SEVERE	SEVERE

### WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >200	<b>14</b>	65	66
Chromium	ppm	ASTM D5185m >15	<b>&lt;1</b>	3	3
Nickel	ppm	ASTM D5185m >15	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>2</b>	4	1
Lead	ppm	ASTM D5185m >100	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m >200	<b>5</b>	9	18
Tin	ppm	ASTM D5185m >25	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	0

### ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	<b>2</b>	<1	1
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	1	1
Manganese	ppm	ASTM D5185m	<b>4</b>	1	1
Magnesium	ppm	ASTM D5185m	<b>&lt;1</b>	4	3
Calcium	ppm	ASTM D5185m	<b>5</b>	13	21
Phosphorus	ppm	ASTM D5185m	<b>103</b>	201	141
Zinc	ppm	ASTM D5185m	<b>0</b>	9	19
Sulfur	ppm	ASTM D5185m	<b>6797</b>	5275	5434

### CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >50	<b>33</b>	16	9
Sodium	ppm	ASTM D5185m	<b>0</b>	2	0
Potassium	ppm	ASTM D5185m >20	<b>2</b>	5	1

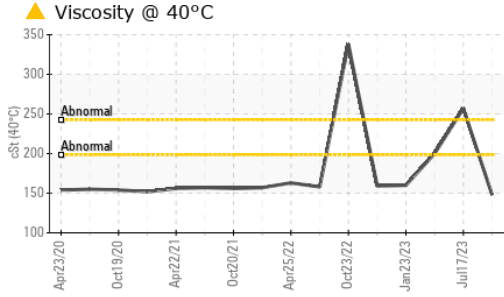
### VISUAL

method	limit/base	current	history1	history2	
White Metal	scalar	*Visual NONE	<b>LIGHT</b>	MODER	MODER
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual NONE	<b>NONE</b>	NONE	MODER
Debris	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual NORML	<b>NORML</b>	THICK	NORML
Odor	scalar	*Visual NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual >0.2	<b>NEG</b>	0.2%	0.2%
Free Water	scalar	*Visual	<b>NEG</b>	NEG	NEG

### FLUID PROPERTIES

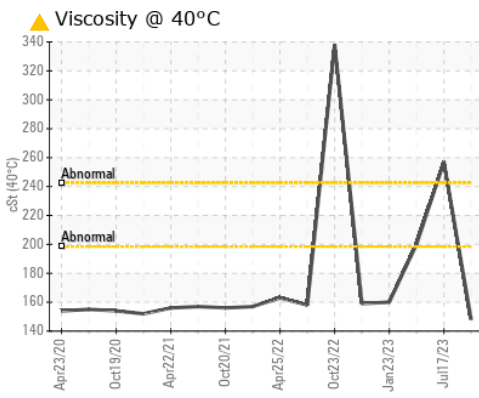
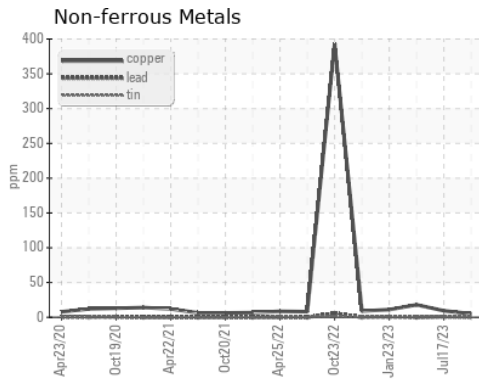
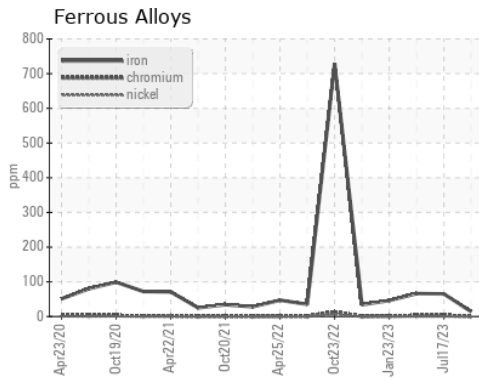
method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	<b>▲ 148</b>	257	200

# OIL ANALYSIS REPORT



SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0091775  
**Lab Number** : **05987058**  
**Unique Number** : 10709720  
**Test Package** : IND 1

**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)