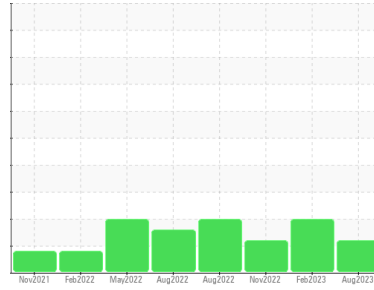


# PROBLEM SUMMARY

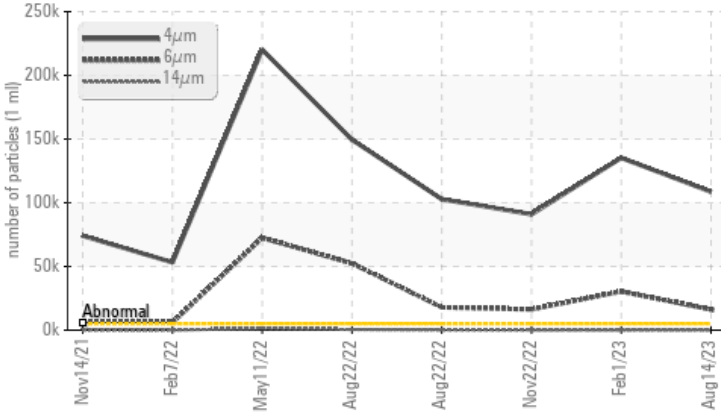
Area  
**Roll Shop**  
 Machine Id  
**[Roll Shop] #2 Grinder-Z CARRIAGE BED**  
 Component  
**Circulating System**  
 Fluid  
**PETRO CANADA ACCUFLO TK 68 (--- GAL)**

Sample Rating Trend



## COMPONENT CONDITION SUMMARY

▲ Particle Trend



## RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status		ABNORMAL	ABNORMAL	ABNORMAL
Particles >4µm	ASTM D7647 >5000	▲ 108588	▲ 135247	▲ 90914
Particles >6µm	ASTM D7647 >1300	▲ 16186	▲ 30401	▲ 16284
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 24/21/13	▲ 24/22/13	▲ 24/21/14

Customer Id: SDITER  
 Sample No.: PCA0101465  
 Lab Number: 05924156  
 Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

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

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.

## HISTORICAL DIAGNOSIS

### 01 Feb 2023 Diag: Don Baldrige

WEAR



We recommend you service the filters on this component. Resample at the next service interval to monitor. The iron level is abnormal. All other component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 22 Nov 2022 Diag: Angela Borella

ISO



We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 22 Aug 2022 Diag: Don Baldrige

ISO



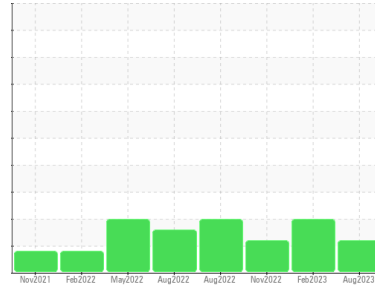
We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



# OIL ANALYSIS REPORT

## Sample Rating Trend


**ISO**


Area  
**Roll Shop**  
 Machine Id  
**[Roll Shop] #2 Grinder-Z CARRIAGE BED**  
 Component  
**Circulating System**  
 Fluid  
**PETRO CANADA ACCUFLO TK 68 (--- GAL)**

### DIAGNOSIS

#### ▲ Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### ▲ Contamination

There is a high amount of particulates present in the oil.

#### 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	<b>PCA0101465</b>	PCA0089496	PCA0081786
Sample Date	Client Info	<b>14 Aug 2023</b>	01 Feb 2023	22 Nov 2022
Machine Age	hrs	<b>0</b>	0	0
Oil Age	hrs	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	Not Chngd	N/A
Sample Status		<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

### WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	<b>15</b>	▲ 44	18
Chromium	ppm	ASTM D5185m	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	<b>&lt;1</b>	5	1
Lead	ppm	ASTM D5185m	<b>0</b>	1	<1
Copper	ppm	ASTM D5185m	<b>8</b>	16	3
Tin	ppm	ASTM D5185m	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

### ADDITIVES

method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	<b>0</b>	0	<1	
Barium	ppm	ASTM D5185m	<b>0</b>	0	1	
Molybdenum	ppm	ASTM D5185m	<b>0</b>	<1	<1	
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	1	<1	
Magnesium	ppm	ASTM D5185m	<b>5</b>	2	2	
Calcium	ppm	ASTM D5185m	700	<b>18</b>	16	14
Phosphorus	ppm	ASTM D5185m	73	<b>88</b>	72	65
Zinc	ppm	ASTM D5185m	0	<b>21</b>	18	6
Sulfur	ppm	ASTM D5185m	4200	<b>3731</b>	2957	3424

### CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	<b>0</b>	<1	0	
Sodium	ppm	ASTM D5185m	<b>3</b>	7	3	
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	1

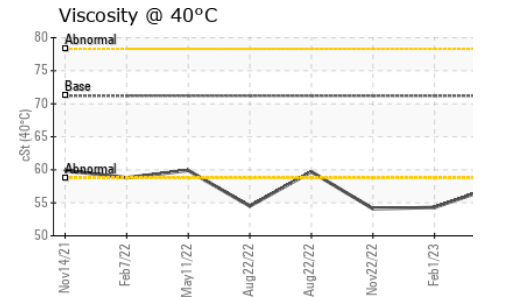
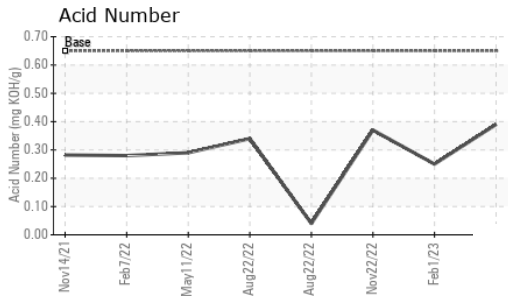
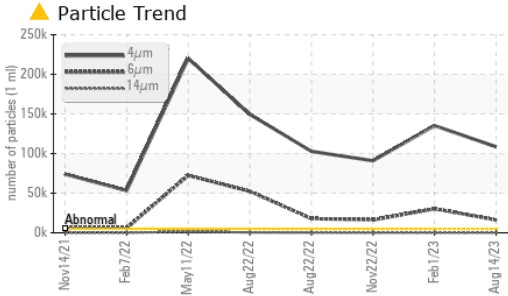
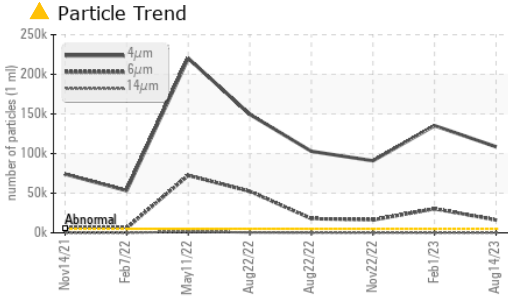
### FLUID CLEANLINESS

method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>5000	▲ <b>108588</b>	▲ 135247	▲ 90914
Particles >6µm	ASTM D7647	>1300	▲ <b>16186</b>	▲ 30401	▲ 16284
Particles >14µm	ASTM D7647	>160	<b>52</b>	67	92
Particles >21µm	ASTM D7647	>40	<b>4</b>	6	7
Particles >38µm	ASTM D7647	>10	<b>0</b>	0	0
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ <b>24/21/13</b>	▲ 24/22/13	▲ 24/21/14

### FLUID DEGRADATION

method	limit/base	current	history1	history2		
Acid Number (AN)	mg KOH/g	ASTM D8045	0.65	<b>0.39</b>	0.25	0.37

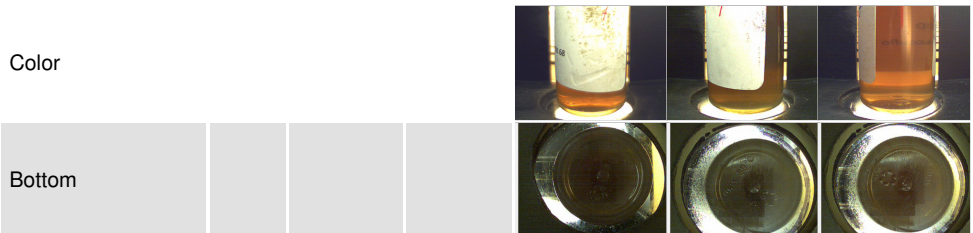
# OIL ANALYSIS REPORT



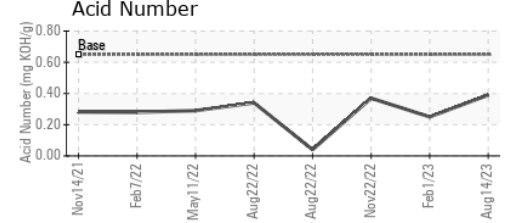
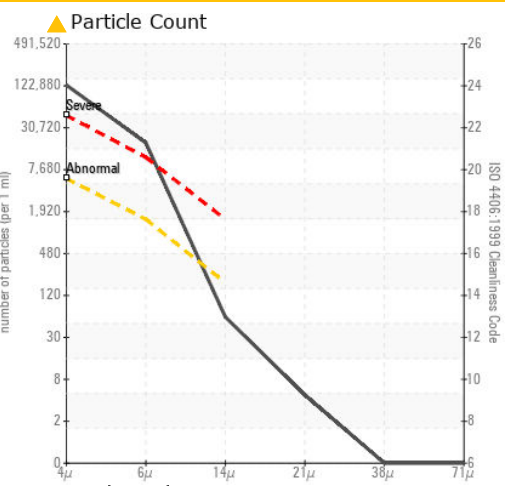
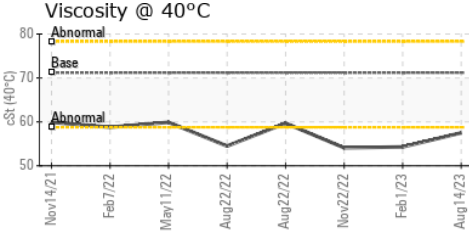
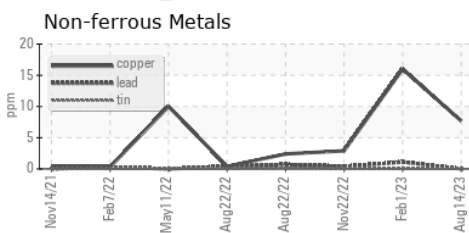
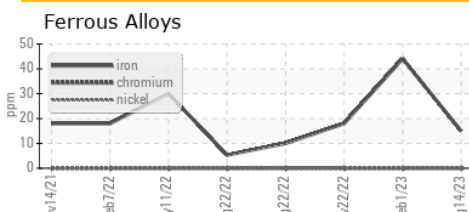
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 71.2	57.5	54.3	54.1

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0101465  
**Lab Number** : 05924156  
**Unique Number** : 10604103  
**Test Package** : PLANT

**SDI - Steel Dynamics Inc. - Heartland**  
 455 West Industrial Drive  
 Terre Haute, IN  
 US 47802  
 Contact: BRAD ELLIS  
 brad.ellis@steeldynamics.com

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)