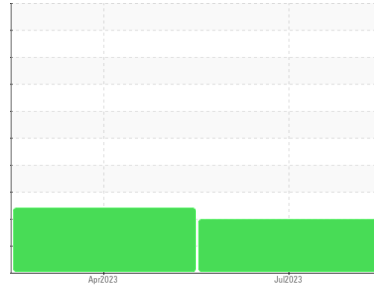




# PROBLEM SUMMARY

Area  
**FP-010**  
 Machine Id  
**B73645 - AUGER CONVEYOR ENGINEERING RAW MATERIAL TRANSFER KSI #8**  
 Component  
**Auger**  
 Fluid  
**PETRO CANADA PURITY FG SYN GEAR ISO 220 (--- GAL)**

Sample Rating Trend

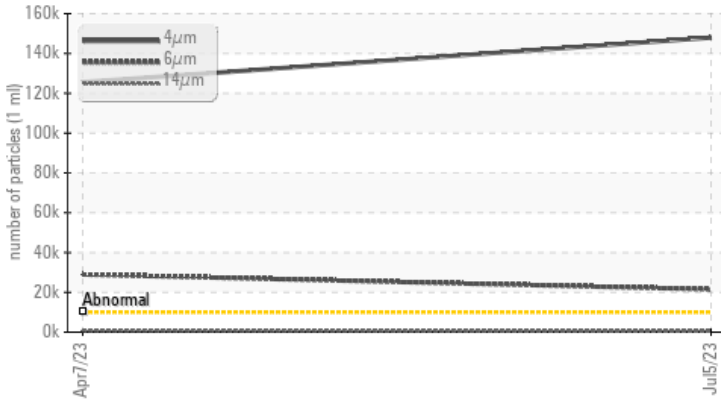


## VISCOSITY

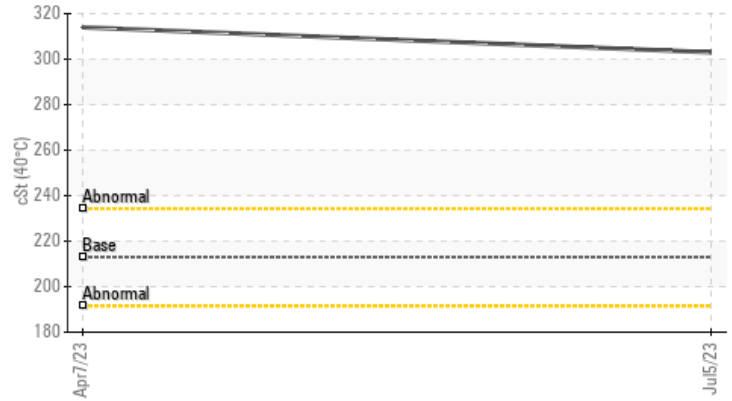


### COMPONENT CONDITION SUMMARY

▲ Particle Trend



▲ Viscosity @ 40°C



### RECOMMENDATION

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

### PROBLEMATIC TEST RESULTS

Sample Status			<b>ABNORMAL</b>	ABNORMAL	---
Particles >4µm	ASTM D7647	>10000	▲ <b>147986</b>	▲ 125567	---
Particles >6µm	ASTM D7647	>2500	▲ <b>21475</b>	▲ 28958	---
Particles >14µm	ASTM D7647	>320	▲ <b>383</b>	▲ 791	---
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ <b>24/22/16</b>	▲ 24/22/17	---
Visc @ 40°C	cSt ASTM D445	213	▲ <b>303</b>	▲ 314	---

Customer Id: HORAUS  
 Sample No.: WC0820603  
 Lab Number: 05901261  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Doug Bogart +1 (800)237-1369 x4016  
[dougb@wearcheckusa.com](mailto:dougb@wearcheckusa.com)

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 if applicable.

## HISTORICAL DIAGNOSIS

07 Apr 2023 Diag: Don Baldrige

### VISCOSITY



We recommend you service the filters on this component if applicable. 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. Viscosity of sample indicates oil is within ISO 320 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

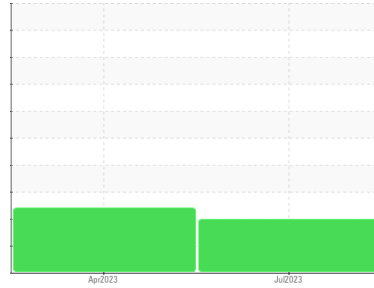
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Area  
**FP-010**  
 Machine Id  
**B73645 - AUGER CONVEYOR ENGINEERING RAW MATERIAL TRANSFER KSI #8**  
 Component  
**Auger**  
 Fluid  
**PETRO CANADA PURITY FG SYN GEAR ISO 220 (--- GAL)**

## DIAGNOSIS

### Recommendation

We recommend you service the filters on this component if applicable. 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

Viscosity of sample indicates oil is within ISO 320 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0820603</b>	WC0792007	---
Sample Date	Client Info		<b>05 Jul 2023</b>	07 Apr 2023	---
Machine Age	hrs	Client Info	<b>0</b>	0	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	N/A	---
Sample Status			<b>ABNORMAL</b>	ABNORMAL	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >150	<b>16</b>	13	---
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m >10	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >25	<b>1</b>	0	---
Lead	ppm	ASTM D5185m >100	<b>0</b>	0	---
Copper	ppm	ASTM D5185m >50	<b>1</b>	<1	---
Tin	ppm	ASTM D5185m >10	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	---
Barium	ppm	ASTM D5185m	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	<b>0</b>	<1	---
Manganese	ppm	ASTM D5185m	<b>1</b>	1	---
Magnesium	ppm	ASTM D5185m	<b>1</b>	2	---
Calcium	ppm	ASTM D5185m	<b>22</b>	31	---
Phosphorus	ppm	ASTM D5185m	<b>233</b>	221	---
Zinc	ppm	ASTM D5185m	<b>126</b>	169	---
Sulfur	ppm	ASTM D5185m	<b>5375</b>	5040	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>6</b>	8	---
Sodium	ppm	ASTM D5185m	<b>0</b>	0	---
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	1	---

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	<b>▲ 147986</b>	▲ 125567	---
Particles >6µm	ASTM D7647	>2500	<b>▲ 21475</b>	▲ 28958	---
Particles >14µm	ASTM D7647	>320	<b>▲ 383</b>	▲ 791	---
Particles >21µm	ASTM D7647	>80	<b>44</b>	▲ 106	---
Particles >38µm	ASTM D7647	>20	<b>1</b>	0	---
Particles >71µm	ASTM D7647	>4	<b>0</b>	0	---
Oil Cleanliness	ISO 4406 (c)	>20/18/15	<b>▲ 24/22/16</b>	▲ 24/22/17	---

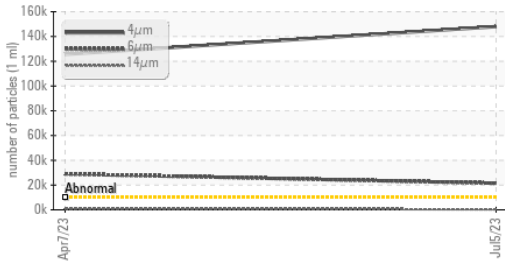
## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.42	<b>0.34</b>	0.37	---

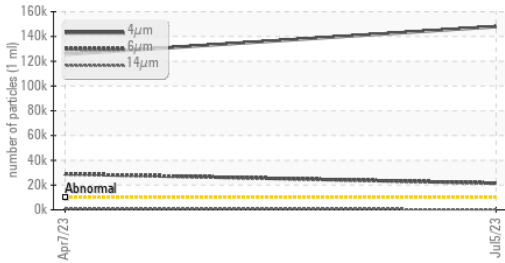


# OIL ANALYSIS REPORT

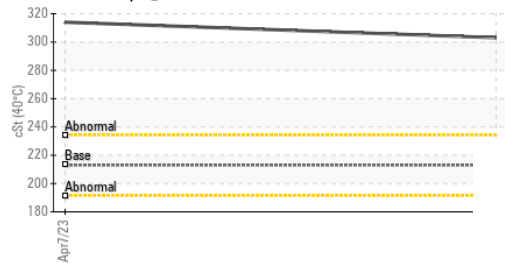
## Particle Trend



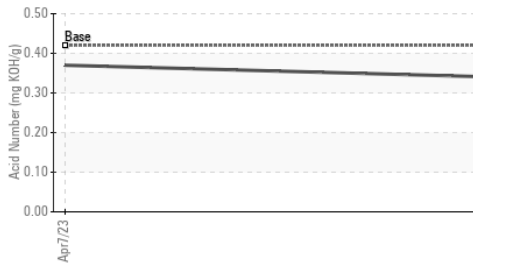
## Particle Trend



## Viscosity @ 40°C



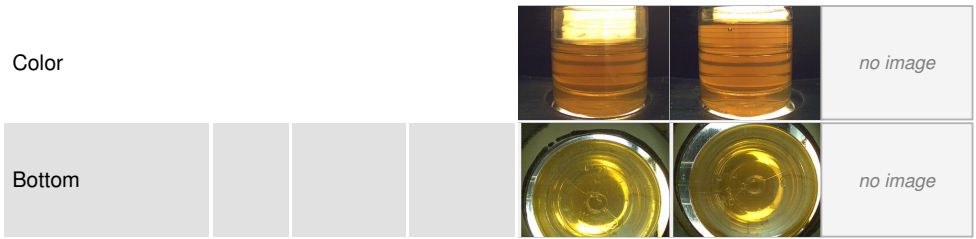
## Acid Number



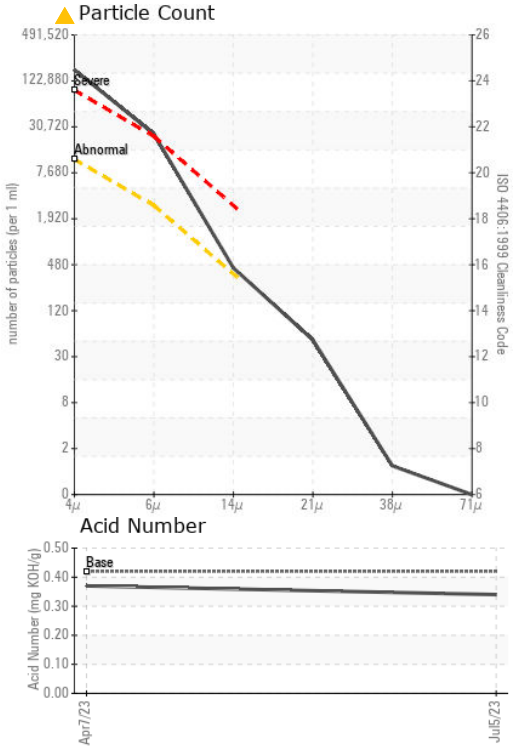
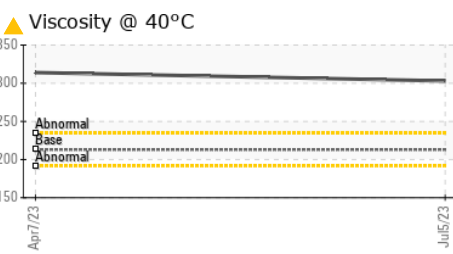
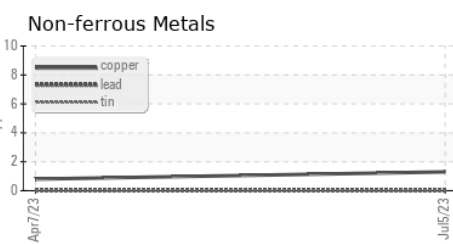
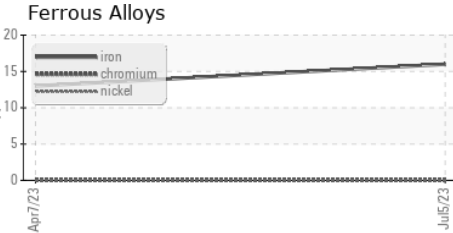
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---
Free Water	scalar	*Visual	NEG	NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 213	▲ 303	▲ 314	---

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0820603 **Received** : 18 Jul 2023  
**Lab Number** : 05901261 **Diagnosed** : 19 Jul 2023  
**Unique Number** : 10562617 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2 ( Additional Tests: PrtCount )

**HORMEL FOODS - AUSTIN**  
 1101 NORTH MAIN ST  
 AUSTIN, MN  
 US 55912  
 Contact: RYAN LOWE  
 rslowe@hormel.com  
 T: (507)437-5674  
 F: (507)437-9805

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)