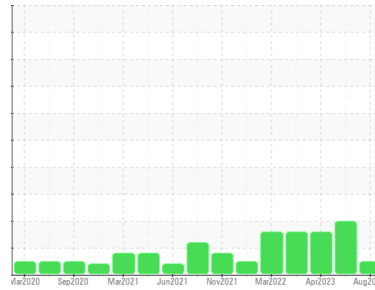




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**GP-105**  
 Machine Id  
**G3192 - PUMP FORMING BUSCH LINE 1 RAPIDPAK (S/N 200008759)**  
 Component  
**Pump**  
 Fluid  
**PETRO CANADA PURITY FG SYNTHETIC 100 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination 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>WC0826171</b>	WC0808560	WC0799622
Sample Date	Client Info		<b>18 Aug 2023</b>	07 Jul 2023	21 Apr 2023
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	Not Changd	N/A
Sample Status			<b>NORMAL</b>	ABNORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >90	<b>&lt;1</b>	<1	<1
Chromium	ppm	ASTM D5185m >5	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m >5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m >3	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >7	<b>0</b>	<1	0
Lead	ppm	ASTM D5185m >12	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >30	<b>0</b>	0	0
Tin	ppm	ASTM D5185m >9	<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	0
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m	<b>17</b>	0	<1
Calcium	ppm	ASTM D5185m	<b>16</b>	0	<1
Phosphorus	ppm	ASTM D5185m	<b>30</b>	2	0
Zinc	ppm	ASTM D5185m	<b>15</b>	0	0
Sulfur	ppm	ASTM D5185m	<b>71</b>	16	5

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >60	<b>6</b>	9	8
Sodium	ppm	ASTM D5185m	<b>24</b>	0	0
Potassium	ppm	ASTM D5185m >20	<b>3</b>	<1	<1

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	<b>1418</b>	▲ 13578	▲ 46965
Particles >6µm	ASTM D7647	>2500	<b>449</b>	▲ 5076	▲ 14194
Particles >14µm	ASTM D7647	>320	<b>42</b>	▲ 641	▲ 598
Particles >21µm	ASTM D7647	>80	<b>12</b>	▲ 201	68
Particles >38µm	ASTM D7647	>20	<b>1</b>	7	2
Particles >71µm	ASTM D7647	>4	<b>1</b>	1	1
Oil Cleanliness	ISO 4406 (c)	>20/18/15	<b>18/16/13</b>	▲ 21/20/17	▲ 23/21/16

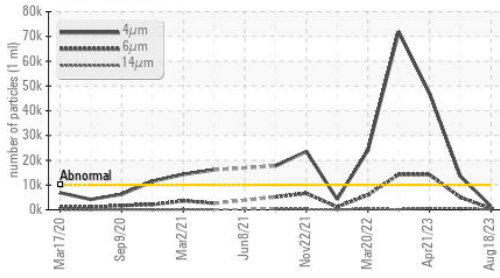
## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.5	<b>0.087</b>	0.049	0.094

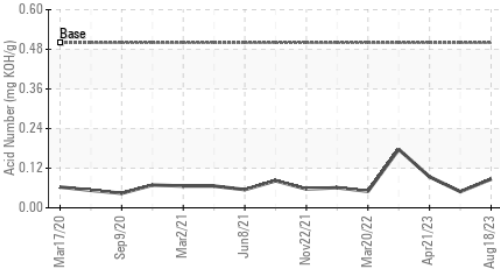


# OIL ANALYSIS REPORT

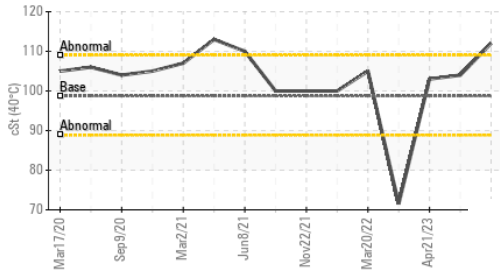
**Particle Trend**



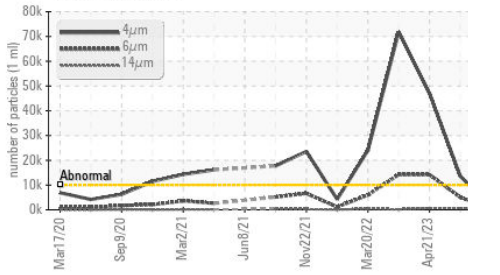
**Acid Number**



**Viscosity @ 40°C**



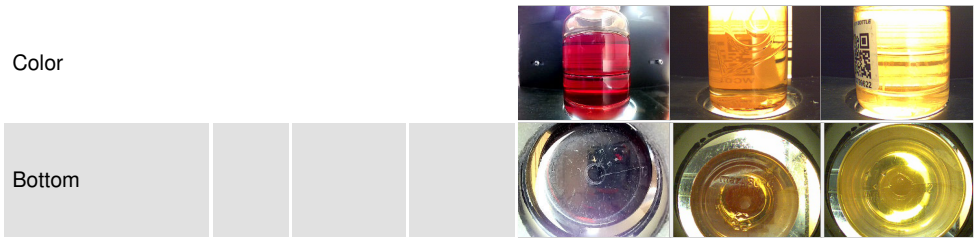
**Particle Trend**



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

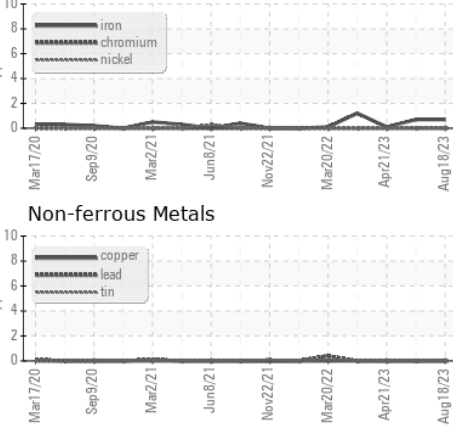
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	98.7	112	104

SAMPLE IMAGES	method	limit/base	current	history1	history2
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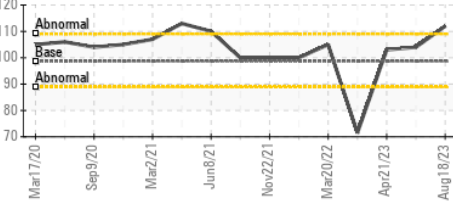


## GRAPHS

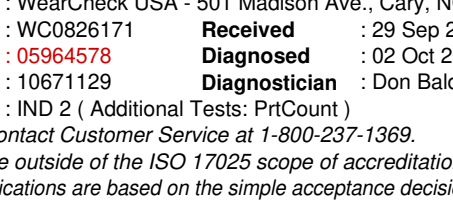
**Ferrous Alloys**



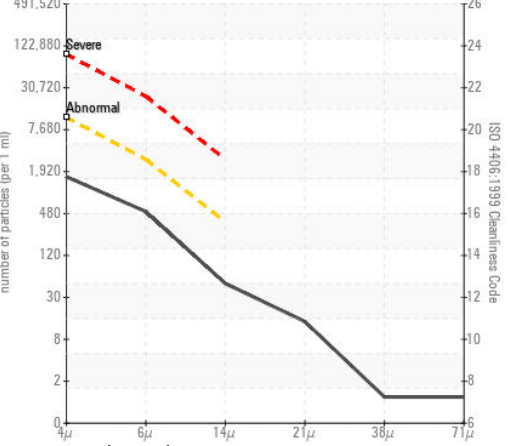
**Non-ferrous Metals**



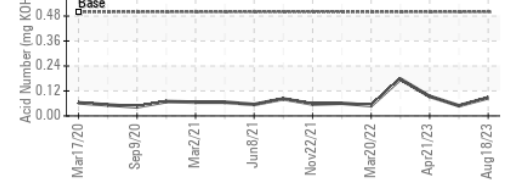
**Viscosity @ 40°C**



**Particle Count**



**Acid Number**



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0826171 **Received** : 29 Sep 2023  
**Lab Number** : 05964578 **Diagnosed** : 02 Oct 2023  
**Unique Number** : 10671129 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: PrtCount )

**HORMEL FOODS - AUSTIN**  
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 AUSTIN, MN  
 US 55912  
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 rslowe@hormel.com  
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 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)