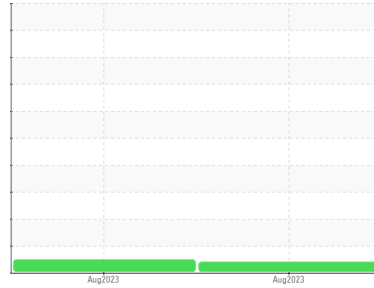




# OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id  
**UNIT #3**  
 Component  
**Hydraulic System**  
 Fluid  
**SAE 0W20 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please note that this is a corrected copy for data entry updates.

### Wear

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

### Fluid Condition

Viscosity of sample indicates oil is within ISO 68 range, advise investigate. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PP</b>	PP	---
Sample Date	Client Info	<b>15 Aug 2023</b>	07 Aug 2023	---
Machine Age	yrs Client Info	<b>0</b>	0	---
Oil Age	yrs Client Info	<b>0</b>	0	---
Oil Changed	Client Info	<b>N/A</b>	N/A	---
Sample Status		<b>ABNORMAL</b>	NORMAL	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >20	<b>0</b>	<1	---
Chromium	ppm ASTM D5185(m) >10	<b>0</b>	0	---
Nickel	ppm ASTM D5185(m) >10	<b>&lt;1</b>	0	---
Titanium	ppm ASTM D5185(m)	<b>0</b>	0	---
Silver	ppm ASTM D5185(m)	<b>0</b>	0	---
Aluminum	ppm ASTM D5185(m) >10	<b>0</b>	3	---
Lead	ppm ASTM D5185(m) >10	<b>0</b>	0	---
Copper	ppm ASTM D5185(m) >75	<b>0</b>	0	---
Tin	ppm ASTM D5185(m) >10	<b>0</b>	0	---
Antimony	ppm ASTM D5185(m)	<b>0</b>	0	---
Vanadium	ppm ASTM D5185(m)	<b>0</b>	<1	---
Beryllium	ppm ASTM D5185(m)	<b>0</b>	0	---
Cadmium	ppm ASTM D5185(m)	<b>0</b>	0	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m)	<b>&lt;1</b>	159	---
Barium	ppm ASTM D5185(m)	<b>0</b>	0	---
Molybdenum	ppm ASTM D5185(m)	<b>&lt;1</b>	34	---
Manganese	ppm ASTM D5185(m)	<b>0</b>	0	---
Magnesium	ppm ASTM D5185(m)	<b>2</b>	363	---
Calcium	ppm ASTM D5185(m)	<b>21</b>	1253	---
Phosphorus	ppm ASTM D5185(m)	<b>9</b>	657	---
Zinc	ppm ASTM D5185(m)	<b>11</b>	730	---
Sulfur	ppm ASTM D5185(m)	<b>1040</b>	2584	---
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	---

## CONTAMINANTS

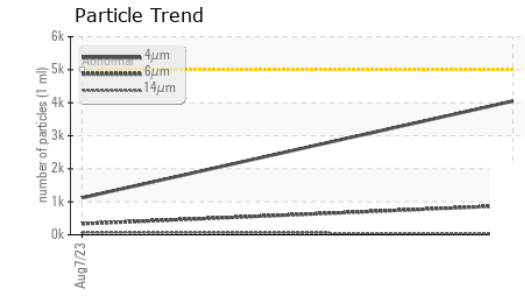
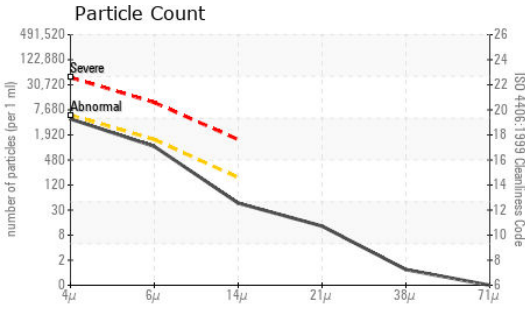
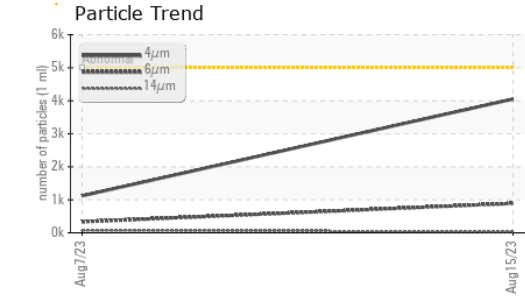
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >20	<b>0</b>	4	---
Sodium	ppm ASTM D5185(m)	<b>&lt;1</b>	2	---
Potassium	ppm ASTM D5185(m) >20	<b>0</b>	2	---

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	<b>4052</b>	1121	---
Particles >6µm	ASTM D7647 >1300	<b>890</b>	334	---
Particles >14µm	ASTM D7647 >160	<b>39</b>	72	---
Particles >21µm	ASTM D7647 >40	<b>11</b>	26	---
Particles >38µm	ASTM D7647 >10	<b>1</b>	1	---
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	<b>19/17/12</b>	17/16/13	---



# OIL ANALYSIS REPORT

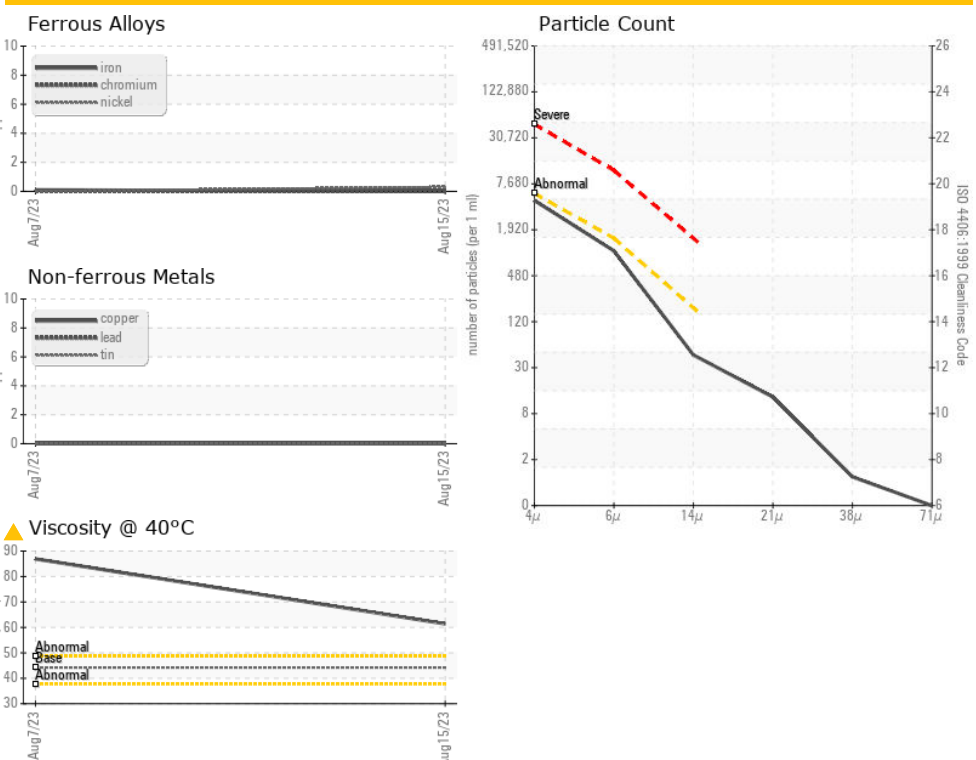


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	44.2 ▲ 61.4	86.9	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					no image
Bottom					no image

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PP **Received** : 16 Aug 2023  
**Lab Number** : 02576183 **Diagnosed** : 22 Aug 2023  
**Unique Number** : 5629243 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 2

**Big Red Oil Products Inc**  
 1915 Clements Rd, Suit 7  
 Pickering, ON  
 CA L1W 3V1  
 Contact: Trish Ryan  
 trish.ryan@bigredoil.ca  
 T: (905)420-0001  
 F: (905)420-0111

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.