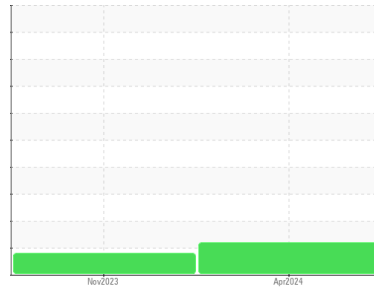




# OIL ANALYSIS REPORT

## Sample Rating Trend



ISO



Area

South Molding

Machine Id

Press 14

Component

14 Gearbox

Fluid

PETRO CANADA (--- GAL)

### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

There is a high amount of silt (particulates < 14 microns in size) 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>SBP0007445</b>	SBP0005197	---
Sample Date	Client Info		<b>18 Apr 2024</b>	10 Nov 2023	---
Machine Age	yrs	Client Info	<b>15</b>	15	---
Oil Age	yrs	Client Info	<b>15</b>	15	---
Oil Changed	Client Info		<b>N/A</b>	Not Changd	---
Sample Status			<b>ABNORMAL</b>	ATTENTION	---

### WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		<b>25</b>	17	---
Iron	ppm	ASTM D5185m >200	<b>10</b>	4	---
Chromium	ppm	ASTM D5185m >15	<b>&lt;1</b>	0	---
Nickel	ppm	ASTM D5185m >15	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m >25	<b>3</b>	0	---
Lead	ppm	ASTM D5185m >100	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m >200	<b>&lt;1</b>	0	---
Tin	ppm	ASTM D5185m >25	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 42	<b>82</b>	80	---
Barium	ppm	ASTM D5185m 0.0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m 0.0	<b>&lt;1</b>	0	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185m 235	<b>&lt;1</b>	<1	---
Calcium	ppm	ASTM D5185m 346	<b>0</b>	<1	---
Phosphorus	ppm	ASTM D5185m 309	<b>289</b>	310	---
Zinc	ppm	ASTM D5185m 364	<b>0</b>	0	---
Sulfur	ppm	ASTM D5185m 1370	<b>7477</b>	7410	---

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>5</b>	4	---
Sodium	ppm	ASTM D5185m	<b>0</b>	0	---
Potassium	ppm	ASTM D5185m >20	<b>2</b>	0	---
Water	%	ASTM D6304 >0.2	<b>0.000</b>	0.004	---
ppm Water	ppm	ASTM D6304 >2000	<b>0</b>	40.1	---

### FLUID CLEANLINESS

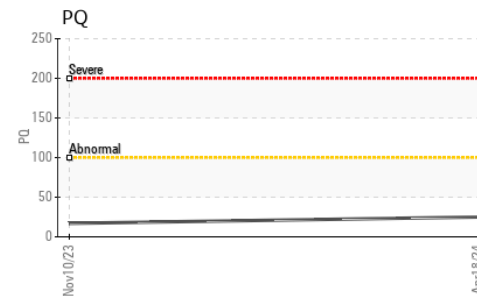
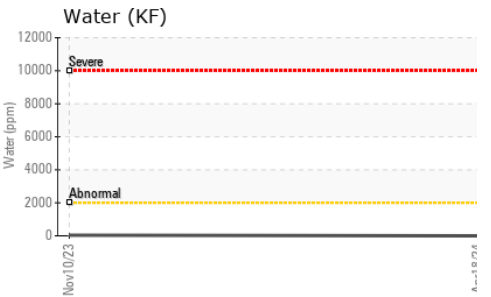
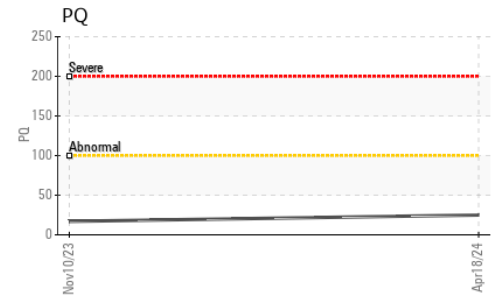
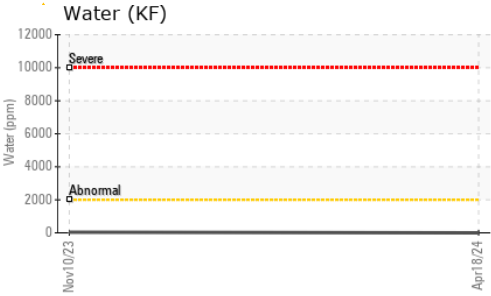
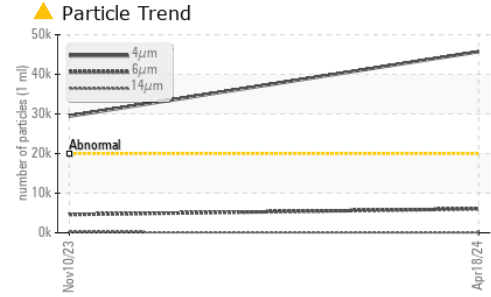
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	<b>▲ 45728</b>	● 29437	---
Particles >6µm	ASTM D7647	>5000	<b>● 6033</b>	4611	---
Particles >14µm	ASTM D7647	>640	<b>103</b>	157	---
Particles >21µm	ASTM D7647	>160	<b>25</b>	35	---
Particles >38µm	ASTM D7647	>40	<b>2</b>	1	---
Particles >71µm	ASTM D7647	>10	<b>0</b>	0	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<b>▲ 23/20/14</b>	● 22/19/14	---

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.55</b>	0.40	---



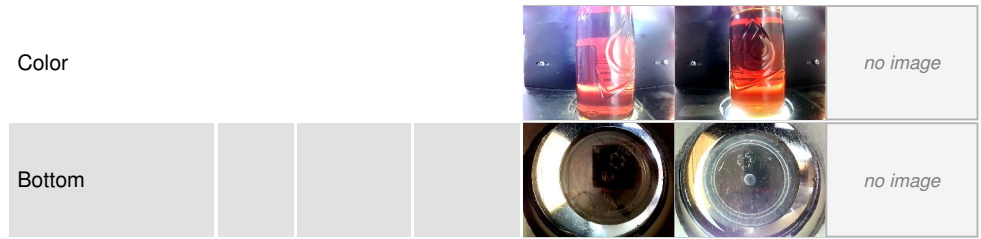
# OIL ANALYSIS REPORT



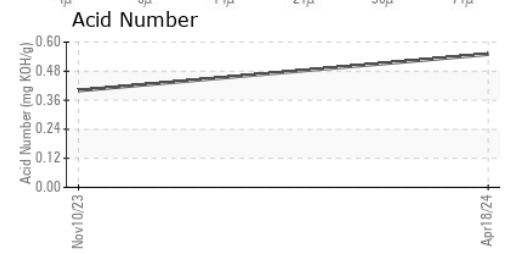
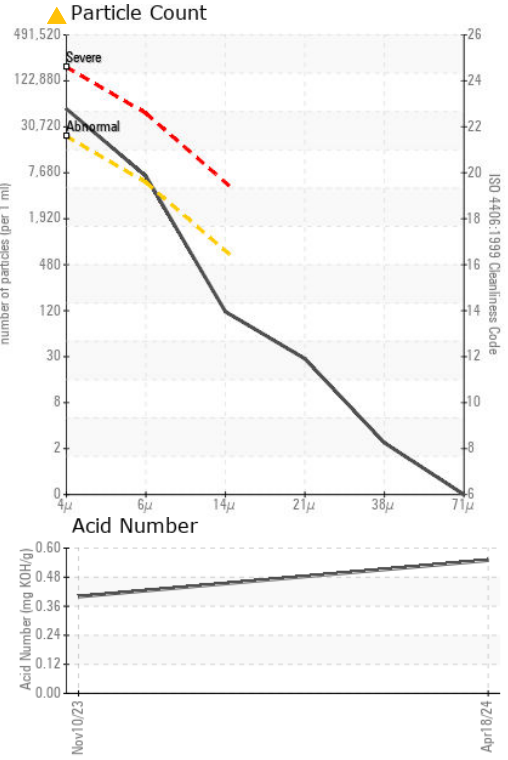
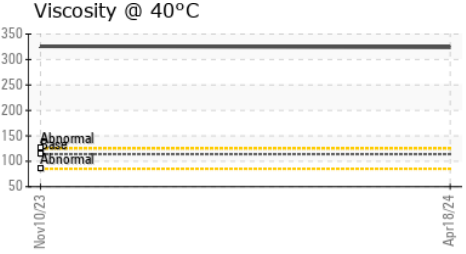
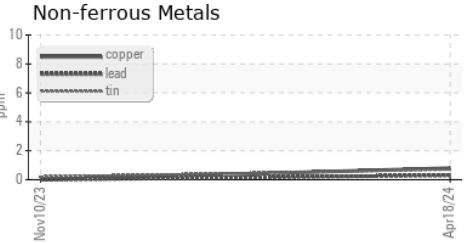
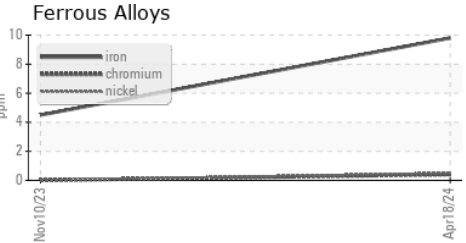
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	114	<b>324</b>	326	---

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : SBP0007445      **Received** : 22 Apr 2024  
**Lab Number** : **06156971**      **Tested** : 23 Apr 2024  
**Unique Number** : 10992394      **Diagnosed** : 25 Apr 2024 - Jonathan Hester  
**Test Package** : PLANT

**BECTON DICKINSON BROKEN BOW**  
 150 S 1ST AVE  
 BROKEN BOW, NE  
 US 68822  
 Contact: JUSTIN HURLBURT  
 Justin\_W\_Hurlburt@bd.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)