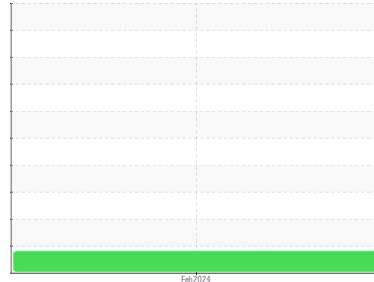




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Machine Id  
**L1 MAIN CLUTCH**

Component  
**Hydraulic System**

Fluid  
**PETRO CANADA ATF D3M (--- GAL)**

## DIAGNOSIS

### Recommendation

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### Wear

All component wear rates are normal.

### Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

### Fluid Condition

The oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0905524</b>	---	---
Sample Date	Client Info	<b>15 Feb 2024</b>	---	---
Machine Age	hrs Client Info	<b>1500</b>	---	---
Oil Age	hrs Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>Not Changed</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.05	<b>NEG</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >20	<b>1</b>	---	---
Chromium	ppm ASTM D5185(m) >20	<b>0</b>	---	---
Nickel	ppm ASTM D5185(m) >20	<b>&lt;1</b>	---	---
Titanium	ppm ASTM D5185(m)	<b>0</b>	---	---
Silver	ppm ASTM D5185(m)	<b>0</b>	---	---
Aluminum	ppm ASTM D5185(m) >20	<b>&lt;1</b>	---	---
Lead	ppm ASTM D5185(m) >20	<b>&lt;1</b>	---	---
Copper	ppm ASTM D5185(m) >20	<b>5</b>	---	---
Tin	ppm ASTM D5185(m) >20	<b>0</b>	---	---
Antimony	ppm ASTM D5185(m)	<b>0</b>	---	---
Vanadium	ppm ASTM D5185(m)	<b>0</b>	---	---
Beryllium	ppm ASTM D5185(m)	<b>0</b>	---	---
Cadmium	ppm ASTM D5185(m)	<b>0</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 98	<b>111</b>	---	---
Barium	ppm ASTM D5185(m) <0.00	<b>0</b>	---	---
Molybdenum	ppm ASTM D5185(m)	<b>0</b>	---	---
Manganese	ppm ASTM D5185(m)	<b>0</b>	---	---
Magnesium	ppm ASTM D5185(m) <1	<b>2</b>	---	---
Calcium	ppm ASTM D5185(m) 70	<b>72</b>	---	---
Phosphorus	ppm ASTM D5185(m) 220	<b>253</b>	---	---
Zinc	ppm ASTM D5185(m)	<b>9</b>	---	---
Sulfur	ppm ASTM D5185(m) 710	<b>853</b>	---	---
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

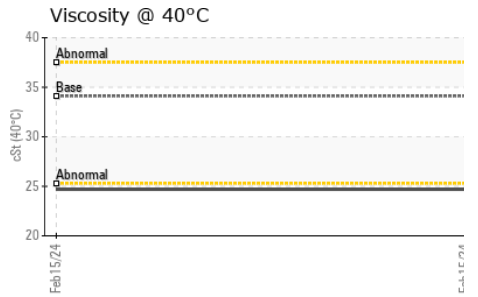
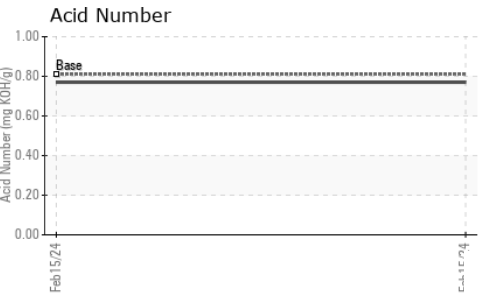
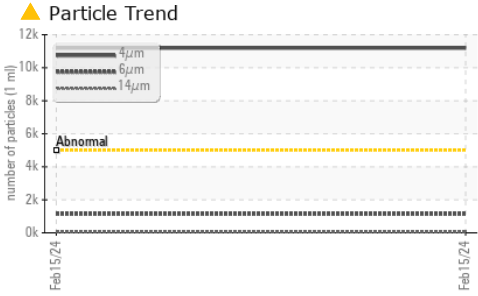
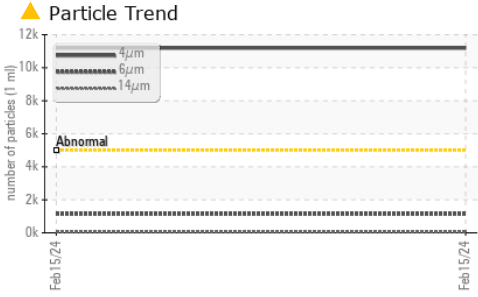
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >15	<b>&lt;1</b>	---	---
Sodium	ppm ASTM D5185(m)	<b>0</b>	---	---
Potassium	ppm ASTM D5185(m) >20	<b>&lt;1</b>	---	---

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	<b>▲ 11190</b>	---	---
Particles >6µm	ASTM D7647 >1300	<b>1141</b>	---	---
Particles >14µm	ASTM D7647 >160	<b>47</b>	---	---
Particles >21µm	ASTM D7647 >40	<b>11</b>	---	---
Particles >38µm	ASTM D7647 >10	<b>1</b>	---	---
Particles >71µm	ASTM D7647 >3	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	<b>▲ 21/17/13</b>	---	---



# OIL ANALYSIS REPORT



FLUID DEGRADATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.81	<b>0.77</b>	---	---

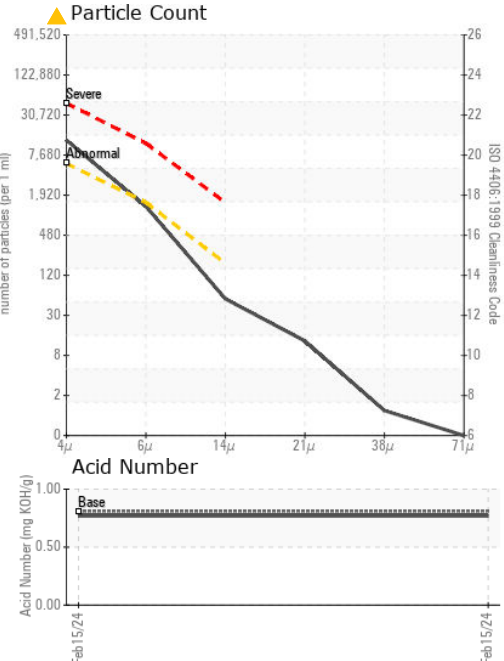
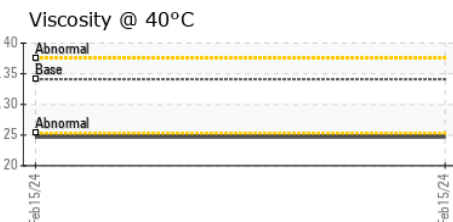
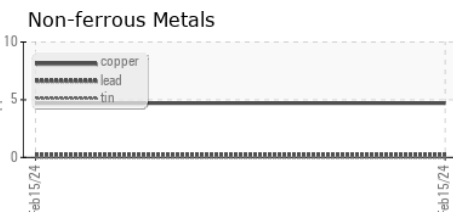
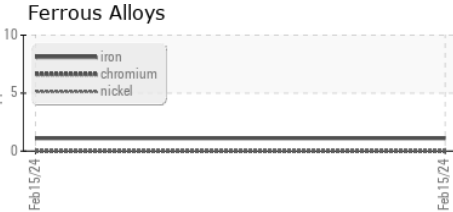
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	Visual*	>0.05	<b>NEG</b>	---	---
Free Water	scalar	Visual*		<b>NEG</b>	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	34.11	<b>24.7</b>	---	---

### SAMPLE IMAGES

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

### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0905524 **Received** : 18 Mar 2024  
**Lab Number** : **02622680** **Tested** : 19 Mar 2024  
**Unique Number** : 5747799 **Diagnosed** : 19 Mar 2024 - Kevin Marson  
**Test Package** : IND 2

**LARSEN & SHAW LTD**  
 575 DURHAM ST. WEST  
 WALKERTON, ON  
 CA N0G 2V0  
 Contact: Derek Kuntz  
 dkuntz@larsenhinge.com  
 T: (519)881-1320  
 F: 519883593

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.