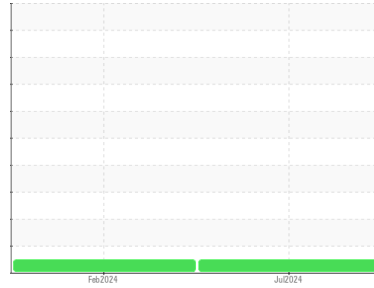




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id

**MERCEDES C7-A**

Component

**Diesel Engine**

Fluid

**PETRO CANADA DURON UHP 10W40 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0955184</b>	WC0902430	---
Sample Date	Client Info		<b>06 Jul 2024</b>	07 Feb 2024	---
Machine Age	kms	Client Info	<b>441900</b>	0	---
Oil Age	kms	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	N/A	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	1.4	---
Water	WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol	WC Method		<b>NEG</b>	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>100	<b>7</b>	15	---
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	2	---
Lead	ppm	ASTM D5185(m)	>40	<b>5</b>	12	---
Copper	ppm	ASTM D5185(m)	>330	<b>196</b>	210	---
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	5	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
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)	2	<b>79</b>	5	---
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	---
Molybdenum	ppm	ASTM D5185(m)	60	<b>46</b>	1	---
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185(m)	1010	<b>890</b>	36	---
Calcium	ppm	ASTM D5185(m)	1070	<b>1337</b>	2279	---
Phosphorus	ppm	ASTM D5185(m)	1150	<b>710</b>	626	---
Zinc	ppm	ASTM D5185(m)	1270	<b>862</b>	714	---
Sulfur	ppm	ASTM D5185(m)	2060	<b>1863</b>	1997	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---

## CONTAMINANTS

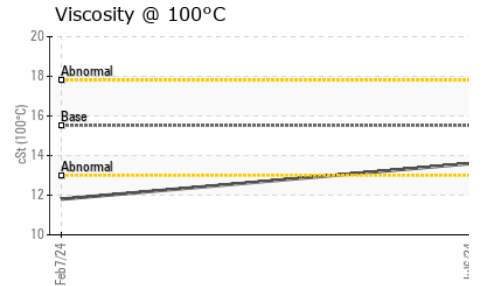
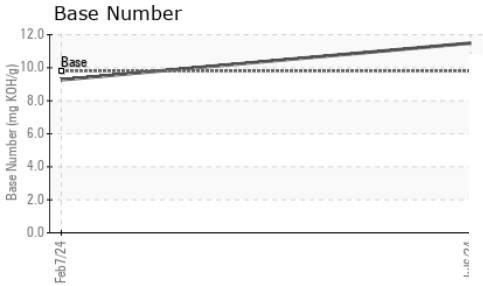
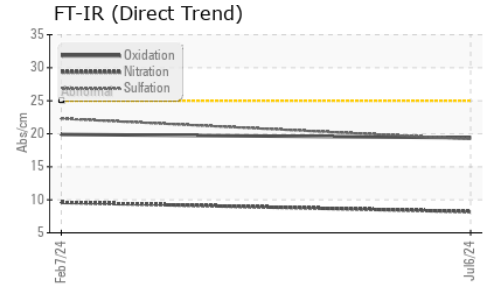
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	<b>2</b>	6	---
Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	2	---
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	3	---

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.2</b>	9.6	---
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>19.2</b>	22.3	---



# OIL ANALYSIS REPORT

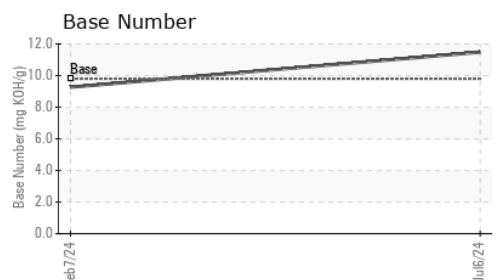
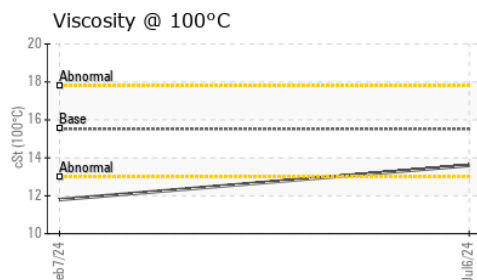
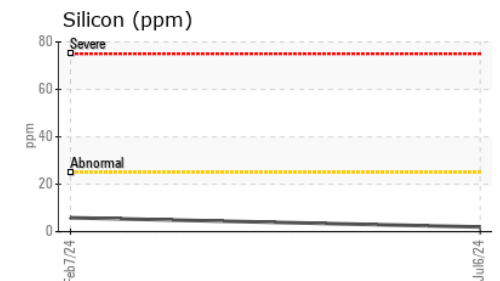
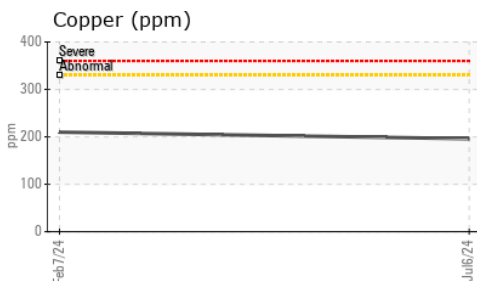
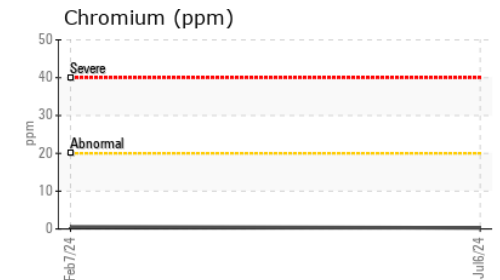
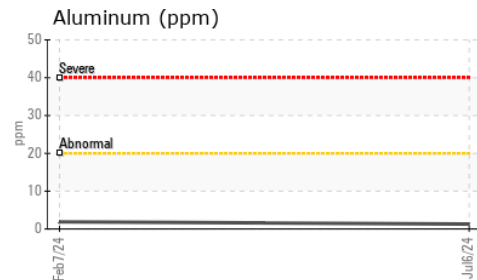
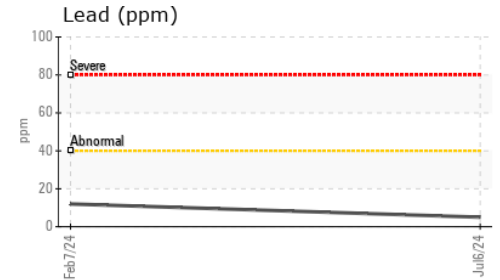
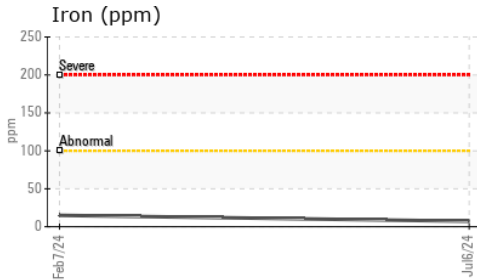


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>19.4</b>	19.9	---
Base Number (BN)	mg KOH/g	ASTM D2896*	9.8	<b>11.49</b>	9.27	---

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	---
Free Water	scalar	Visual*		<b>NEG</b>	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.52	<b>13.6</b>	11.8	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0955184      **Received** : 10 Jul 2024  
**Lab Number** : **02646881**      **Tested** : 11 Jul 2024  
**Unique Number** : 5812433      **Diagnosed** : 11 Jul 2024 - Wes Davis  
**Test Package** : MOB 2

**TransitNext M&R Inc**  
 3110 Albion Road North  
 Ottawa, ON  
 CA K1V 9V9  
 Contact: Chris Johnston  
 Chris.Johnston2@atkinsrealis.com

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.