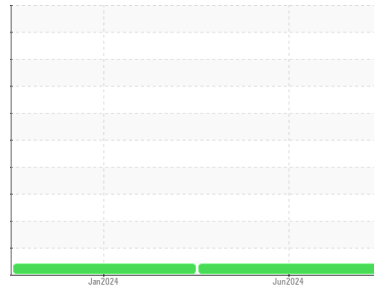


# OIL ANALYSIS REPORT

## Sample Rating Trend



## VISCOSITY



Area  
**FRONT LOAD**  
 Machine Id  
**FEL240965**  
 Component  
**Oil Filter Diesel Engine**  
 Fluid  
**PETRO CANADA DURON HP 15W40 (38 QTS)**

### 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0122779</b>	PCA0109916	---
Sample Date	Client Info		<b>21 Jun 2024</b>	25 Jan 2024	---
Machine Age	hrs	Client Info	<b>1518</b>	536	---
Oil Age	hrs	Client Info	<b>1518</b>	536	---
Oil Changed	Client Info		<b>N/A</b>	Changed	---
Sample Status			<b>ATTENTION</b>	ATTENTION	---

### CONTAMINATION

	method	limit/base	current	history1	history2
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 D5185m >120	<b>35</b>	38	---
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	1	---
Nickel	ppm	ASTM D5185m >5	<b>4</b>	4	---
Titanium	ppm	ASTM D5185m >2	<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m >2	<b>0</b>	1	---
Aluminum	ppm	ASTM D5185m >20	<b>2</b>	6	---
Lead	ppm	ASTM D5185m >40	<b>0</b>	2	---
Copper	ppm	ASTM D5185m >330	<b>127</b>	172	---
Tin	ppm	ASTM D5185m >15	<b>1</b>	4	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	---

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>8</b>	250	---
Barium	ppm	ASTM D5185m	<b>0</b>	<1	---
Molybdenum	ppm	ASTM D5185m	<b>65</b>	117	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	5	---
Magnesium	ppm	ASTM D5185m	<b>874</b>	688	---
Calcium	ppm	ASTM D5185m	<b>1092</b>	1298	---
Phosphorus	ppm	ASTM D5185m	<b>782</b>	693	---
Zinc	ppm	ASTM D5185m	<b>1184</b>	826	---
Sulfur	ppm	ASTM D5185m	<b>2152</b>	2211	---

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>9</b>	74	---
Sodium	ppm	ASTM D5185m	<b>4</b>	6	---
Potassium	ppm	ASTM D5185m >20	<b>4</b>	8	---
Fuel	%	ASTM D3524 >3.0	<b>&lt;1.0</b>	0.5	---

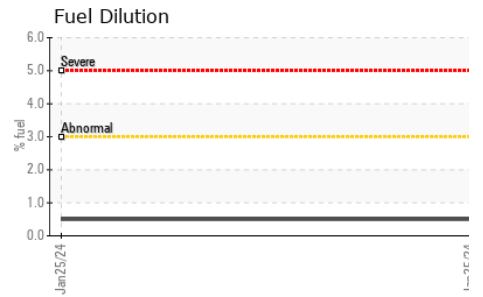
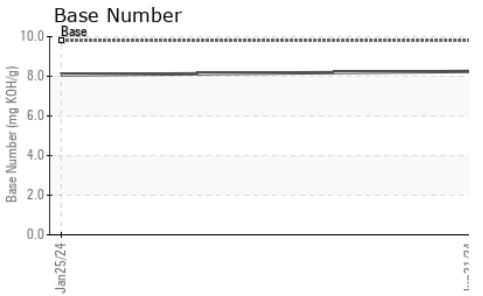
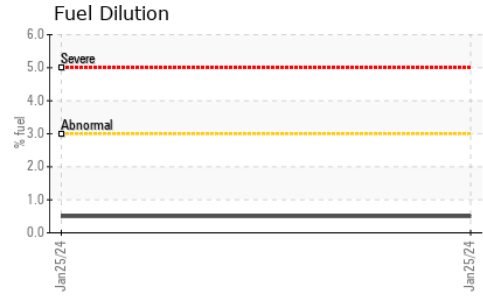
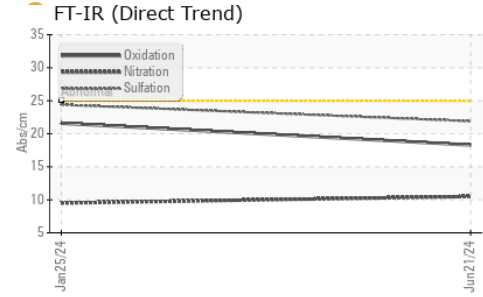
### INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >4	<b>0.6</b>	0.3	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>10.5</b>	9.5	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>21.9</b>	24.4	---

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>18.3</b>	21.6	---
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	<b>8.25</b>	8.07	---

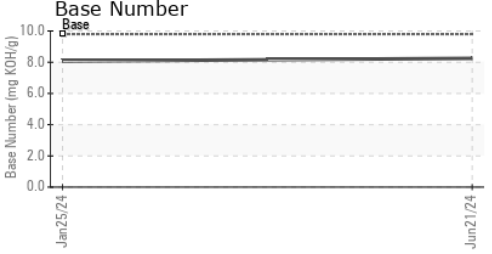
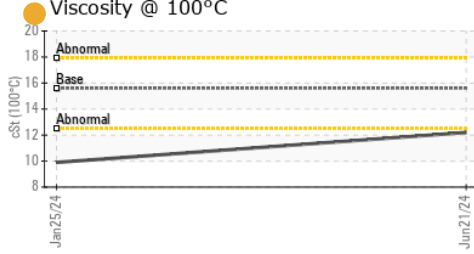
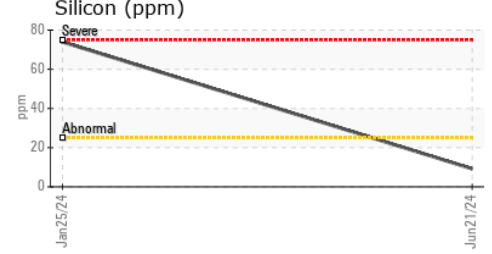
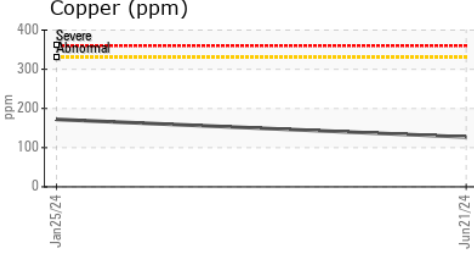
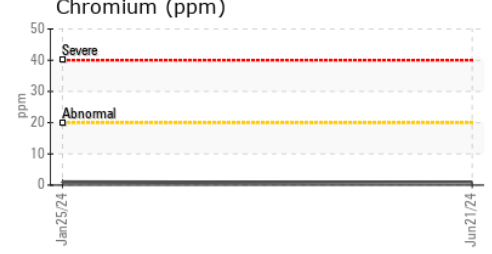
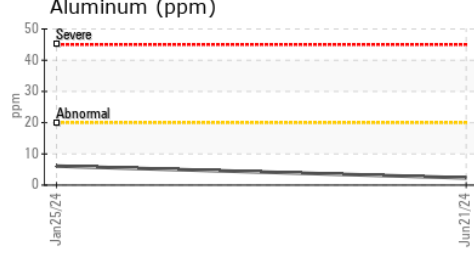
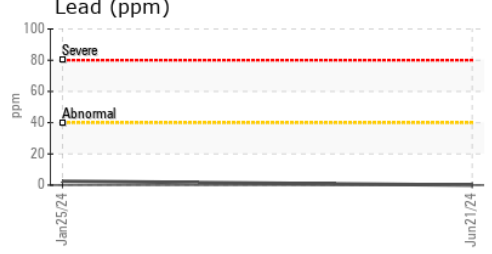
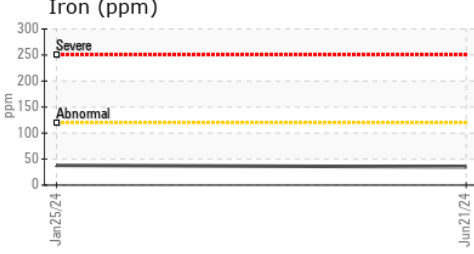
# OIL ANALYSIS REPORT



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 @ 100°C	cSt	ASTM D445	15.6	● 12.2	● 9.9

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0122779      **Received** : 26 Jun 2024  
**Lab Number** : **06221427**      **Tested** : 27 Jun 2024  
**Unique Number** : 11099624      **Diagnosed** : 27 Jun 2024 - Sean Felton  
**Test Package** : MOB 2 ( Additional Tests: FuelDilution )

**UMM - Shop 401 - Norton**  
 186 South Washington Street  
 Norton, MA  
 US 02766  
 Contact: P Cohen  
 pcohen@win-waste.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)