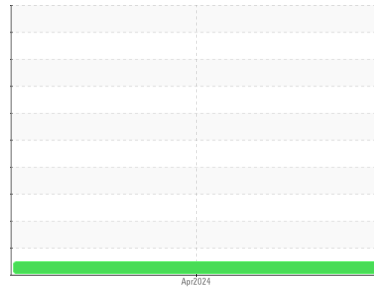


# OIL ANALYSIS REPORT

**Sample Rating Trend**

**NORMAL**


Area  
**FLEET**  
 Machine Id  
**2227103**  
 Component  
**Main Diesel Engine**  
 Fluid  
**PETRO CANADA 10W30 (36 QTS)**

**DIAGNOSIS**
**Recommendation**

Resample at the next service interval to monitor.

**Wear**

Metal levels are typical for a new component breaking in.

**Contamination**

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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>PCA0116275</b>	---	---
Sample Date	Client Info		<b>06 Apr 2024</b>	---	---
Machine Age	mls	Client Info	<b>46806</b>	---	---
Oil Age	mls	Client Info	<b>42000</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>NORMAL</b>	---	---

**CONTAMINATION**

	method	limit/base	current	history1	history2
Fuel	WC Method	>6.0	<b>&lt;1.0</b>	---	---
Water	WC Method	>0.2	<b>NEG</b>	---	---
Glycol	WC Method		<b>NEG</b>	---	---

**WEAR METALS**

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<b>15</b>	---
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	---
Nickel	ppm	ASTM D5185m	>2	<b>1</b>	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---
Silver	ppm	ASTM D5185m	>2	<b>5</b>	---
Aluminum	ppm	ASTM D5185m	>25	<b>13</b>	---
Lead	ppm	ASTM D5185m	>40	<b>2</b>	---
Copper	ppm	ASTM D5185m	>330	<b>18</b>	---
Tin	ppm	ASTM D5185m	>15	<b>3</b>	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---
Cadmium	ppm	ASTM D5185m		<b>1</b>	---

**ADDITIVES**

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>11</b>	---
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	---
Molybdenum	ppm	ASTM D5185m		<b>70</b>	---
Manganese	ppm	ASTM D5185m		<b>2</b>	---
Magnesium	ppm	ASTM D5185m		<b>845</b>	---
Calcium	ppm	ASTM D5185m		<b>1134</b>	---
Phosphorus	ppm	ASTM D5185m		<b>1012</b>	---
Zinc	ppm	ASTM D5185m		<b>1101</b>	---
Sulfur	ppm	ASTM D5185m		<b>2894</b>	---

**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>11</b>	---
Sodium	ppm	ASTM D5185m		<b>1</b>	---
Potassium	ppm	ASTM D5185m	>20	<b>33</b>	---

**INFRA-RED**

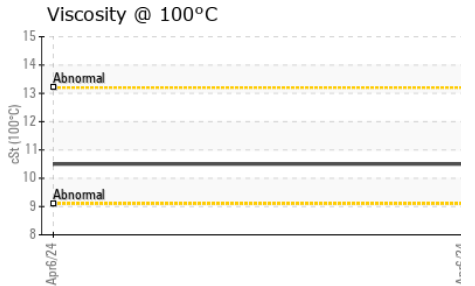
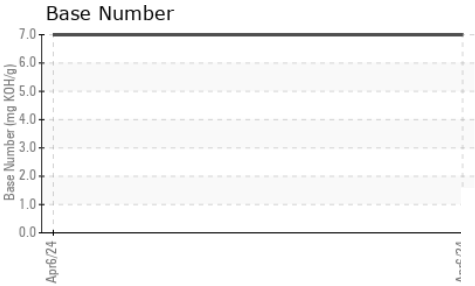
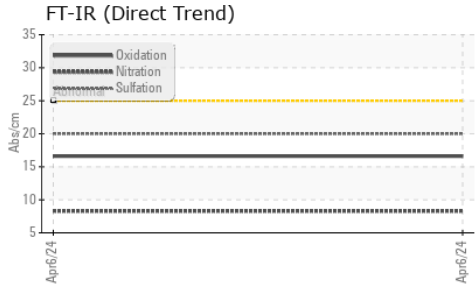
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.2</b>	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.3</b>	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.0</b>	---

**FLUID DEGRADATION**

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.6</b>	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.0</b>	---



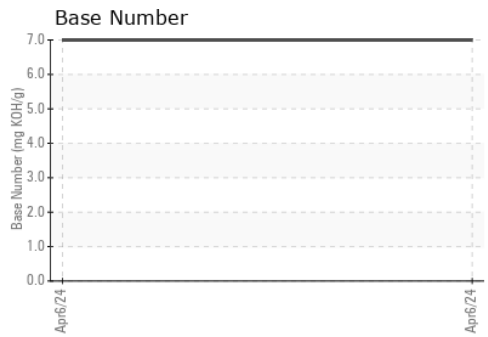
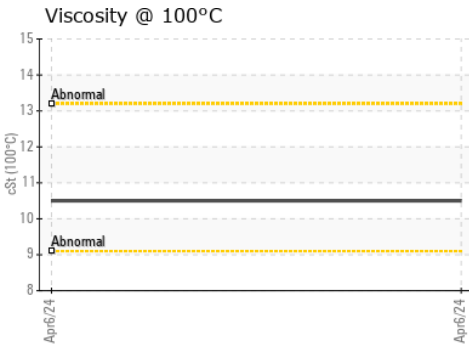
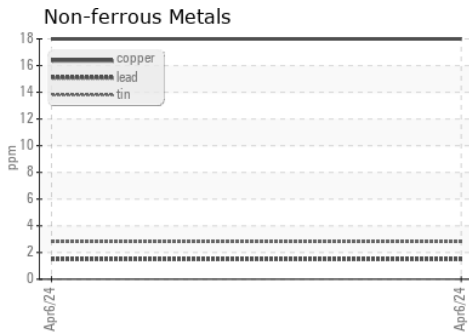
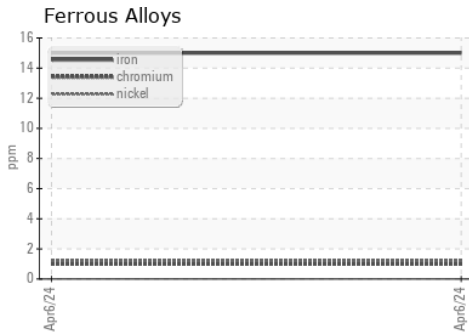
# OIL ANALYSIS REPORT



PARAMETER	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	---	---

PARAMETER	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	10.5	---	---

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0116275  
**Lab Number** : 06146880  
**Unique Number** : 10976958  
**Test Package** : FLEET

**Received** : 12 Apr 2024  
**Tested** : 15 Apr 2024  
**Diagnosed** : 15 Apr 2024 - Wes Davis

**PERDUE FARMS - DILLON**  
 2047 HWY 9 WEST  
 DILLON, SC  
 US 29536  
 Contact: KEVIN HOOKS  
 kevin.hooks@perdue.com  
 T: (843)841-8069  
 F: (843)841-8070

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)