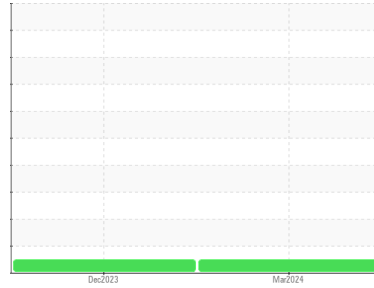


# OIL ANALYSIS REPORT

**Sample Rating Trend**

**NORMAL**


Area  
**(TEMP) Preferred Service-Tractor**  
 Machine Id  
**[Preferred Service-Tractor] 192A32038B**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON UHP 5W30 (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>PCA0120220</b>	PCA0114390	---
Sample Date	Client Info			<b>30 Mar 2024</b>	04 Dec 2023	---
Machine Age	mls	Client Info		<b>51045</b>	25687	---
Oil Age	mls	Client Info		<b>25357</b>	24500	---
Oil Changed	Client Info			<b>Not Chngd</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>6.0		<b>&lt;1.0</b>	<1.0	---
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	>100	<b>28</b>	37	---
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	<1	---
Nickel	ppm	ASTM D5185m	>2	<b>1</b>	1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	---
Aluminum	ppm	ASTM D5185m	>25	<b>16</b>	27	---
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m	>330	<b>206</b>	279	---
Tin	ppm	ASTM D5185m	>15	<b>3</b>	5	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---

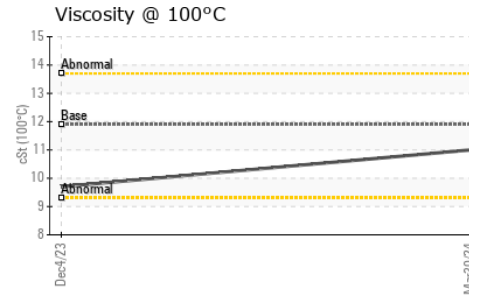
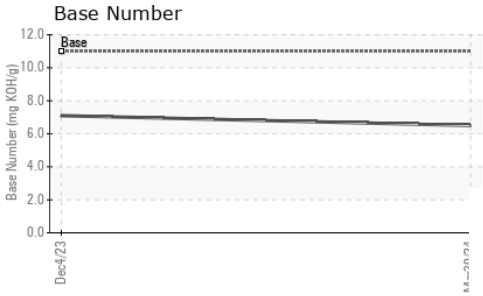
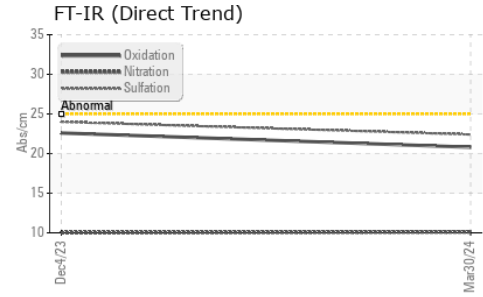
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<b>23</b>	215	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	13	---
Molybdenum	ppm	ASTM D5185m	64	<b>70</b>	128	---
Manganese	ppm	ASTM D5185m	0	<b>2</b>	5	---
Magnesium	ppm	ASTM D5185m	1160	<b>1016</b>	662	---
Calcium	ppm	ASTM D5185m	820	<b>935</b>	1534	---
Phosphorus	ppm	ASTM D5185m	1160	<b>929</b>	732	---
Zinc	ppm	ASTM D5185m	1260	<b>1183</b>	869	---
Sulfur	ppm	ASTM D5185m	3000	<b>2789</b>	2314	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>14</b>	54	---
Sodium	ppm	ASTM D5185m		<b>4</b>	1	---
Potassium	ppm	ASTM D5185m	>20	<b>48</b>	70	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.5</b>	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.1</b>	10.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.4</b>	24.0	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.8</b>	22.6	---
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	<b>6.5</b>	7.1	---

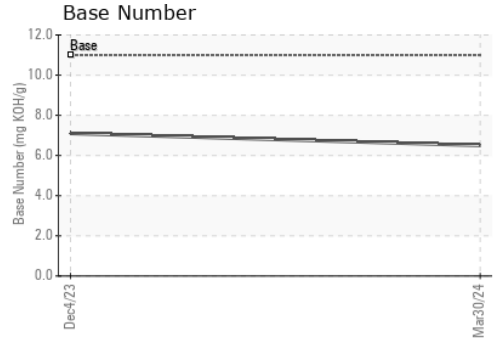
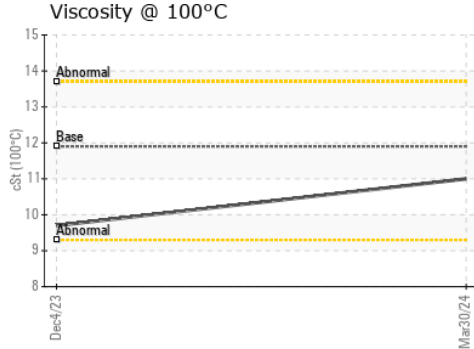
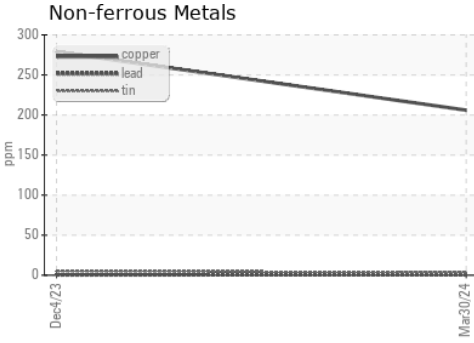
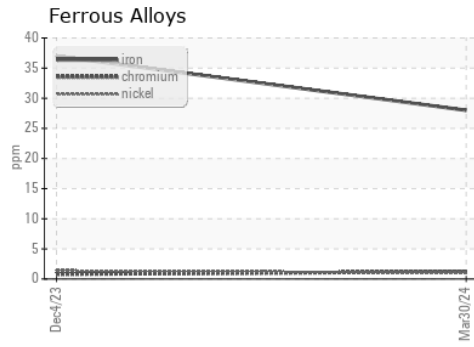
# OIL ANALYSIS REPORT



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	11.9	<b>11.0</b>	9.7	---

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0120220  
**Lab Number** : 06139519  
**Unique Number** : 10964327  
**Test Package** : FLEET

**Received** : 05 Apr 2024  
**Tested** : 05 Apr 2024  
**Diagnosed** : 05 Apr 2024 - Wes Davis

**Transervice - Shop 1920 - Preferred Service**  
 1955 W. North Avenue, Bldg K  
 Melrose Park, IL  
 US 60160

Contact: Tom Lindeman  
 tlindemann@transervice.com  
 T: (630)376-8946

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)

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