

# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**(P1184786) Preferred Service-Tractor**  
 Machine Id  
**[Preferred Service-Tractor] 192A32032B**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON UHP 5W30 (36 QTS)**

## DIAGNOSIS

**Recommendation**  
 No corrective action is recommended at this time. Resample at the next service interval to monitor.

**Wear**  
 All component wear rates are normal.

**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. No other contaminants were detected in the oil.

**Fluid Condition**  
 The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PCA0116699</b>	---	---
Sample Date	Client Info	<b>11 Feb 2024</b>	---	---
Machine Age	mls	Client Info	<b>46480</b>	---
Oil Age	mls	Client Info	<b>30291</b>	---
Oil Changed	Client Info	<b>N/A</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>70</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>&lt;1</b>	---
Aluminum	ppm	ASTM D5185m	>25	<b>17</b>	---
Lead	ppm	ASTM D5185m	>40	<b>1</b>	---
Copper	ppm	ASTM D5185m	>330	<b>105</b>	---
Tin	ppm	ASTM D5185m	>15	<b>6</b>	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	---

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	<b>14</b>	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	---
Molybdenum	ppm	ASTM D5185m	64	<b>63</b>	---
Manganese	ppm	ASTM D5185m	0	<b>1</b>	---
Magnesium	ppm	ASTM D5185m	1160	<b>1138</b>	---
Calcium	ppm	ASTM D5185m	820	<b>873</b>	---
Phosphorus	ppm	ASTM D5185m	1160	<b>980</b>	---
Zinc	ppm	ASTM D5185m	1260	<b>1277</b>	---
Sulfur	ppm	ASTM D5185m	3000	<b>2872</b>	---

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	<b>12</b>	---
Sodium	ppm	ASTM D5185m		<b>5</b>	---
Potassium	ppm	ASTM D5185m	>20	<b>57</b>	---

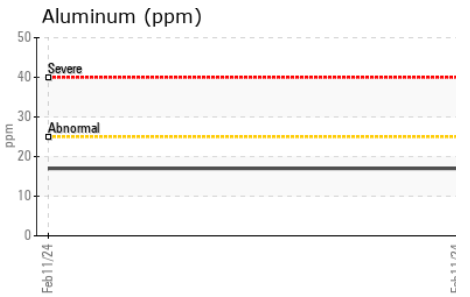
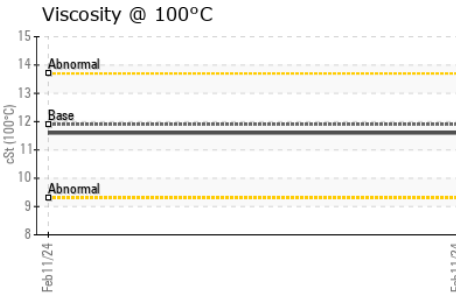
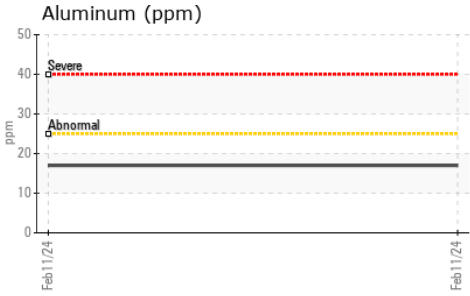
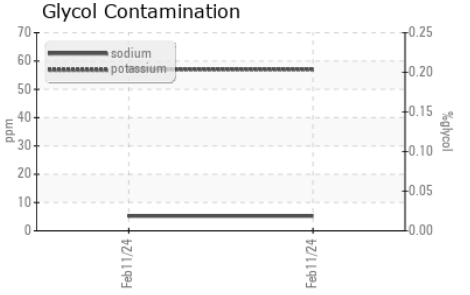
## INFRA-RED

method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	<b>1</b>	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.9</b>	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>25.6</b>	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>25.6</b>	---
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	<b>5.5</b>	---

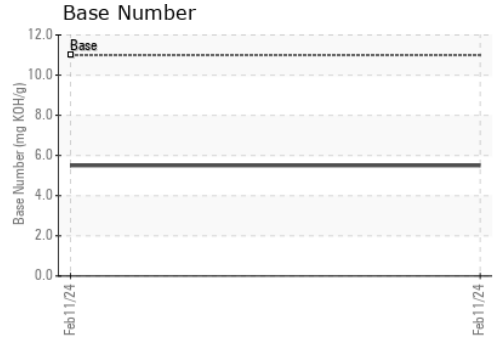
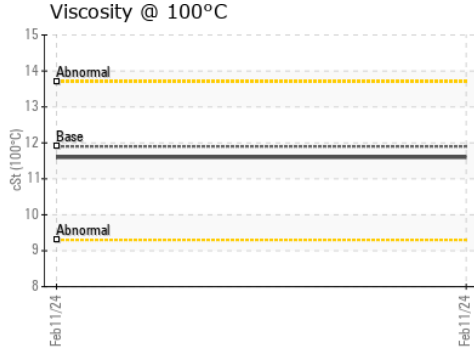
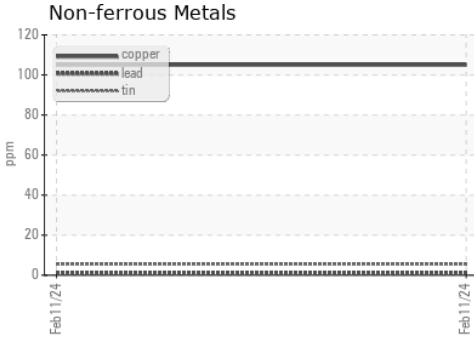
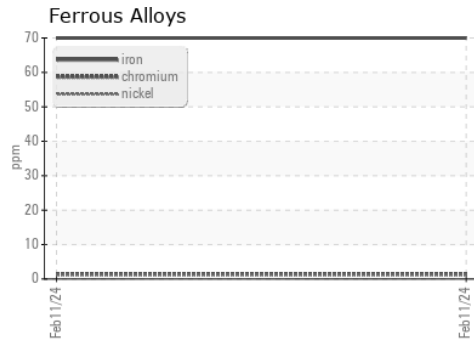
# OIL ANALYSIS REPORT



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	11.6	---

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0116699      **Received** : 15 Feb 2024  
**Lab Number** : 06089822      **Tested** : 16 Feb 2024  
**Unique Number** : 10882675      **Diagnosed** : 16 Feb 2024 - Don Baldrige  
**Test Package** : FLEET

**Transervice - Shop 1920 - Preferred Service**  
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 Melrose Park, IL  
 US 60160  
 Contact: Tom Lindeman  
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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)