

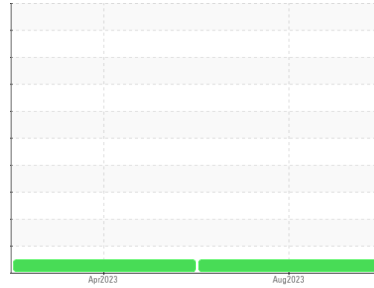
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**(43759PC) Feldman Lumber-Tractor**  
Machine Id  
**[Feldman Lumber-Tractor] 196D515**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (11 GAL)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

Metal levels are typical for a new component breaking in.

### 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>PCA0098295</b>	PCA0089307	---
Sample Date	Client Info		<b>21 Aug 2023</b>	25 Apr 2023	---
Machine Age	mls	Client Info	<b>73729</b>	70629	---
Oil Age	mls	Client Info	<b>3100</b>	2654	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<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 >80	<b>6</b>	6	---
Chromium	ppm	ASTM D5185m >5	<b>&lt;1</b>	0	---
Nickel	ppm	ASTM D5185m >2	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m	<b>0</b>	0	---
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >30	<b>2</b>	3	---
Lead	ppm	ASTM D5185m >30	<b>0</b>	0	---
Copper	ppm	ASTM D5185m >150	<b>1</b>	13	---
Tin	ppm	ASTM D5185m >5	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>10</b>	12	---
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m 50	<b>63</b>	67	---
Manganese	ppm	ASTM D5185m 0	<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185m 950	<b>903</b>	1014	---
Calcium	ppm	ASTM D5185m 1050	<b>979</b>	1242	---
Phosphorus	ppm	ASTM D5185m 995	<b>939</b>	1070	---
Zinc	ppm	ASTM D5185m 1180	<b>1174</b>	1346	---
Sulfur	ppm	ASTM D5185m 2600	<b>2996</b>	3583	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>7</b>	3	---
Sodium	ppm	ASTM D5185m	<b>1</b>	<1	---
Potassium	ppm	ASTM D5185m >20	<b>0</b>	3	---

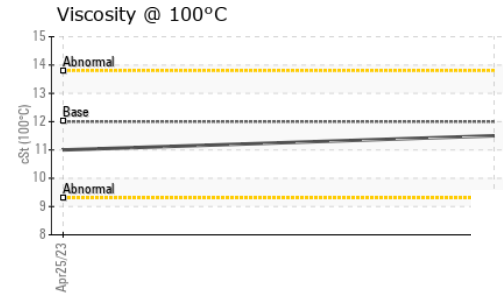
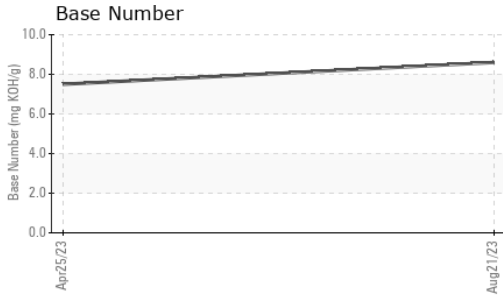
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.6</b>	0.2	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>7.2</b>	6.1	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>18.3</b>	16.5	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>13.5</b>	13.0	---
Base Number (BN)	mg KOH/g	ASTM D2896	<b>8.6</b>	7.5	---

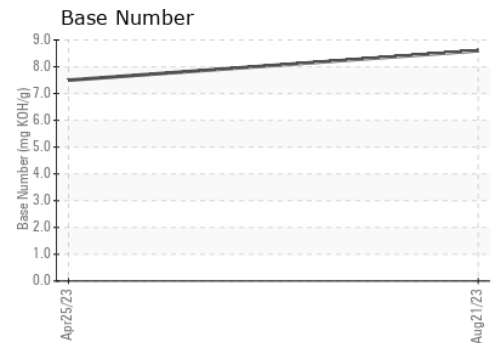
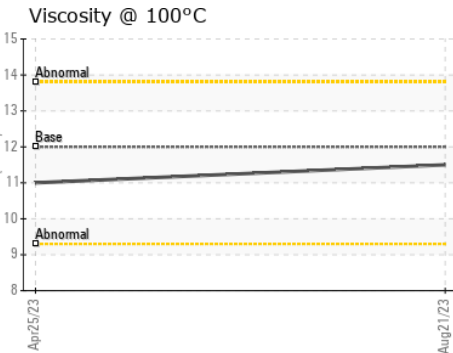
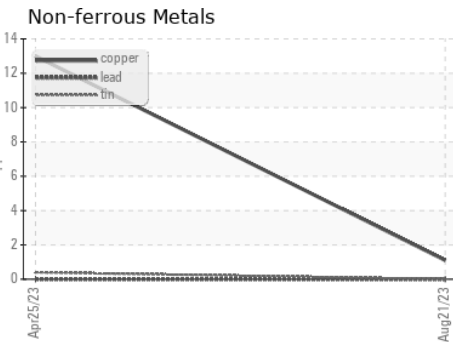
# OIL ANALYSIS REPORT



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	12.00	11.5	11.0

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0098295 **Received** : 07 Dec 2023  
**Lab Number** : **06028533** **Diagnosed** : 09 Dec 2023  
**Unique Number** : 10778324 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**Transervice - Shop 1960 - Feldman Lumber Service**  
 1281 Metropolitan Avenue  
 Brooklyn, NY  
 US 11237  
 Contact: Marc Fried  
 mrfried@transervice.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)

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F: