



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Area  
**(AW115P) Feldman Lumber-Tractor**  
Machine Id  
**[Feldman Lumber-Tractor] 196D525**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (11 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0106063</b>	PCA0098282	PCA0098279
Sample Date		Client Info		<b>11 Jun 2024</b>	02 Nov 2023	12 May 2023
Machine Age	mls	Client Info		<b>39052</b>	33814	30017
Oil Age	mls	Client Info		<b>5238</b>	3000	4545
Filter Age	mls	Client Info		<b>5238</b>	3000	4545
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>80	<b>20</b>	9	8
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>8</b>	3	12
Lead	ppm	ASTM D5185m	>30	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>150	<b>32</b>	20	<1
Tin	ppm	ASTM D5185m	>5	<b>1</b>	1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

There is no indication of any contamination in the oil.

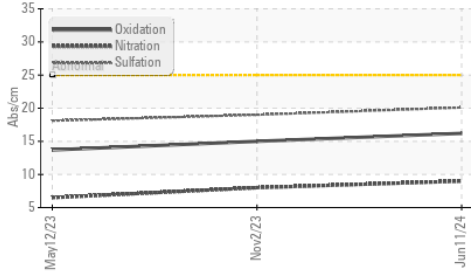
Silicon	ppm	ASTM D5185m	>20	<b>5</b>	6	2
Potassium	ppm	ASTM D5185m	>20	<b>9</b>	1	17
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.4</b>	0.3	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.0</b>	8.0	6.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.1</b>	19.0	18.1
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

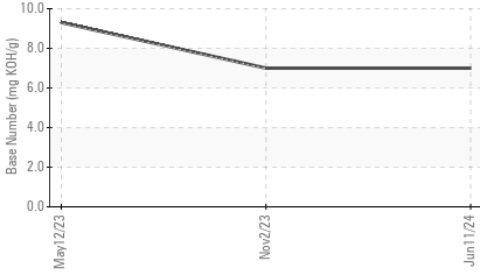
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>3</b>	1	<1
Boron	ppm	ASTM D5185m	2	<b>21</b>	7	22
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>73</b>	65	57
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	950	<b>800</b>	903	851
Calcium	ppm	ASTM D5185m	1050	<b>1217</b>	992	1204
Phosphorus	ppm	ASTM D5185m	995	<b>966</b>	904	957
Zinc	ppm	ASTM D5185m	1180	<b>1184</b>	1162	1198
Sulfur	ppm	ASTM D5185m	2600	<b>3056</b>	2774	3609
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.2</b>	15.0	13.7
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.0</b>	7.0	9.3
Visc @ 100°C	cSt	ASTM D445	12.00	<b>11.5</b>	11.2	11.6

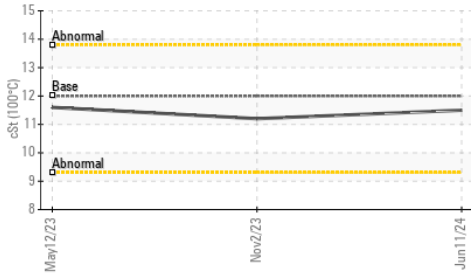
**FT-IR (Direct Trend)**



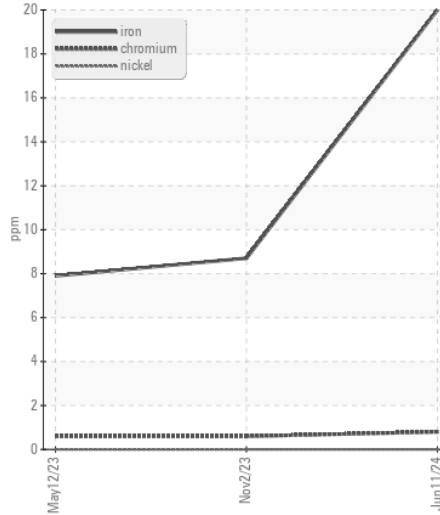
**Base Number**



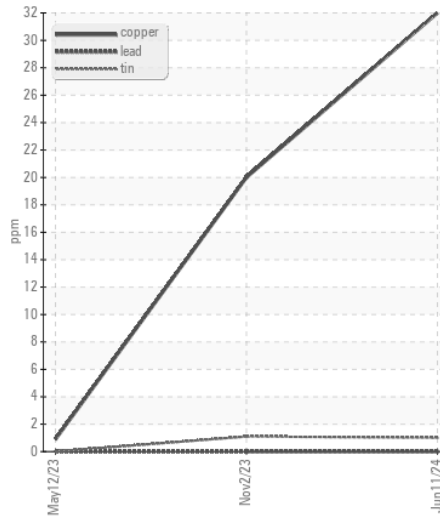
**Viscosity @ 100°C**



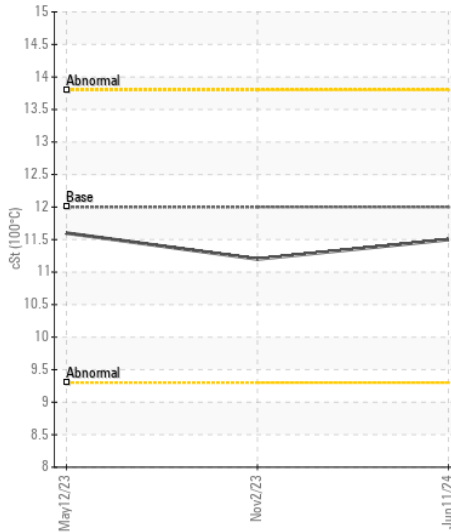
**Ferrous Alloys**



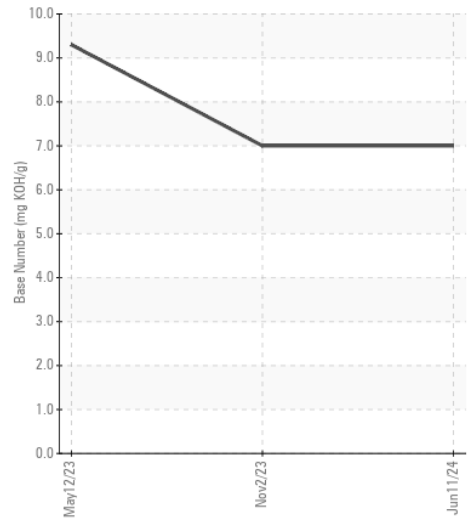
**Non-ferrous Metals**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0106063  
**Lab Number** : 06235375  
**Unique Number** : 11124209  
**Test Package** : FLEET

**Received** : 15 Jul 2024  
**Tested** : 15 Jul 2024  
**Diagnosed** : 15 Jul 2024 - Wes Davis

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

T:  
F: