

PROBLEM SUMMARY



Area
(AY303K) Feldman Lumber
Machine Id
[Feldman Lumber] 196D265
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (11 GAL)

Sample Rating Trend

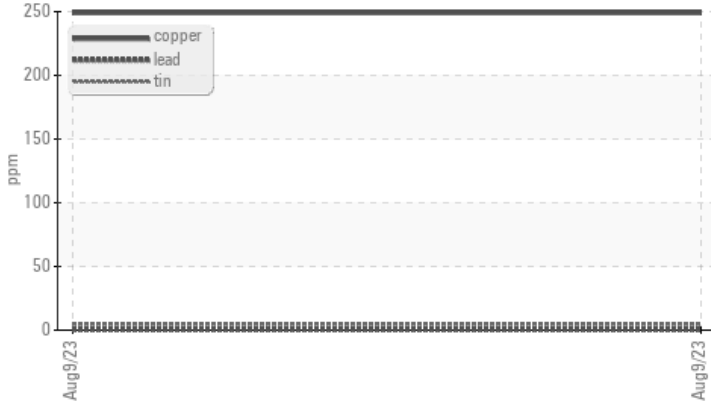


WEAR



COMPONENT CONDITION SUMMARY

▲ Non-ferrous Metals



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status	ABNORMAL		---	---		
Copper	ppm	ASTM D5185m	>150	▲ 249	---	---

Customer Id: TSV1960
Sample No.: PCA0098298
Lab Number: 05922637
Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Area
(AY303K) Feldman Lumber
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[Feldman Lumber] 196D265
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (11 GAL)



DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal.

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 acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0098298	---	---
Sample Date	Client Info		09 Aug 2023	---	---
Machine Age	mls	Client Info	8556	---	---
Oil Age	mls	Client Info	8556	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			ABNORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	---	---
Glycol	WC Method		NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >80	46	---	---
Chromium	ppm	ASTM D5185m >5	1	---	---
Nickel	ppm	ASTM D5185m >2	1	---	---
Titanium	ppm	ASTM D5185m	<1	---	---
Silver	ppm	ASTM D5185m >3	1	---	---
Aluminum	ppm	ASTM D5185m >30	10	---	---
Lead	ppm	ASTM D5185m >30	<1	---	---
Copper	ppm	ASTM D5185m >150	▲ 249	---	---
Tin	ppm	ASTM D5185m >5	5	---	---
Vanadium	ppm	ASTM D5185m	0	---	---
Cadmium	ppm	ASTM D5185m	0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	44	---	---
Barium	ppm	ASTM D5185m 0	0	---	---
Molybdenum	ppm	ASTM D5185m 50	43	---	---
Manganese	ppm	ASTM D5185m 0	5	---	---
Magnesium	ppm	ASTM D5185m 950	539	---	---
Calcium	ppm	ASTM D5185m 1050	1711	---	---
Phosphorus	ppm	ASTM D5185m 995	761	---	---
Zinc	ppm	ASTM D5185m 1180	933	---	---
Sulfur	ppm	ASTM D5185m 2600	2777	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	6	---	---
Sodium	ppm	ASTM D5185m	4	---	---
Potassium	ppm	ASTM D5185m >20	23	---	---

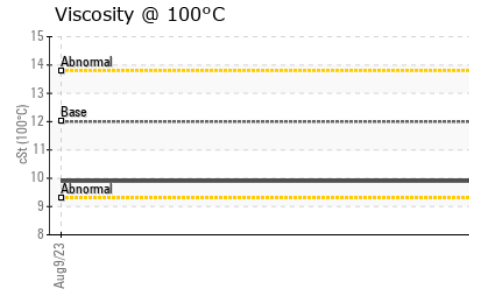
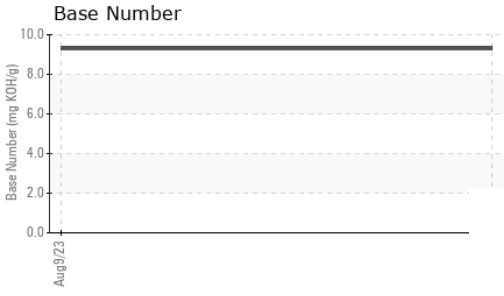
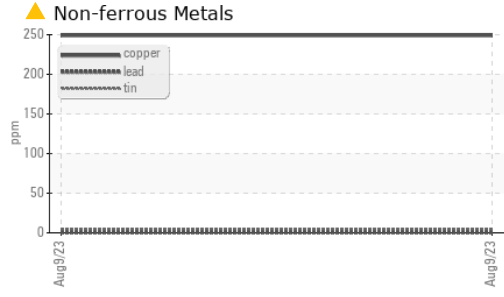
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.3	---	---
Nitration	Abs/cm	*ASTM D7624 >20	8.0	---	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	22.9	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	21.1	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.3	---	---

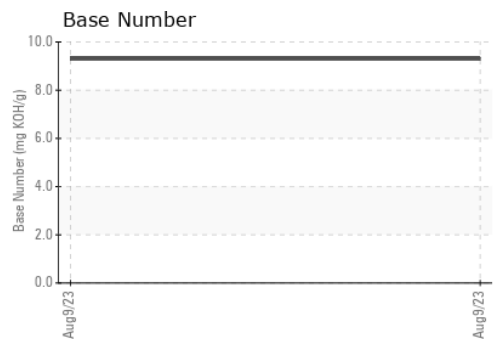
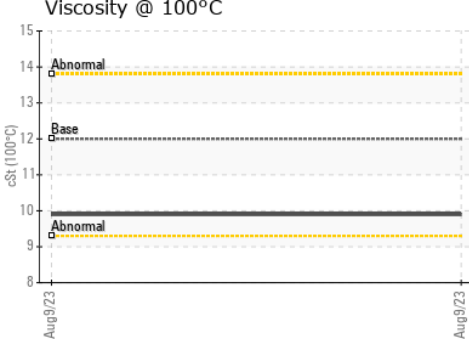
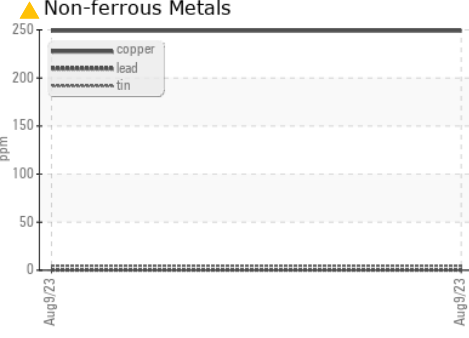
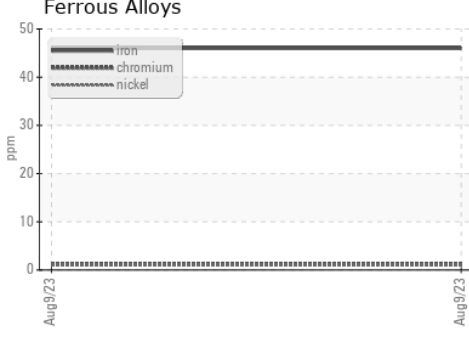
OIL ANALYSIS REPORT



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	9.9	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0098298 **Received** : 11 Aug 2023
Lab Number : 05922637 **Diagnosed** : 14 Aug 2023
Unique Number : 10602584 **Diagnostician** : Don Baldrige
Test Package : FLEET

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 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)