

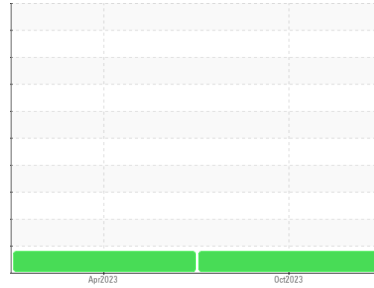
PROBLEM SUMMARY

Sample Rating Trend

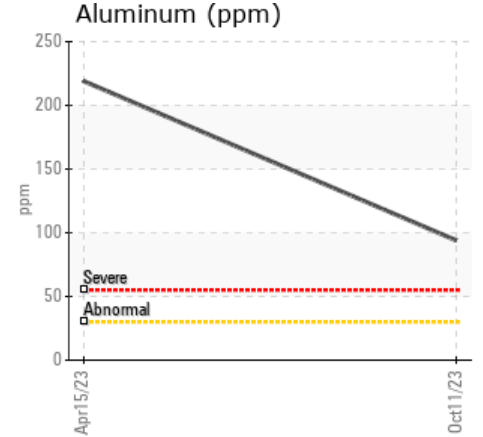
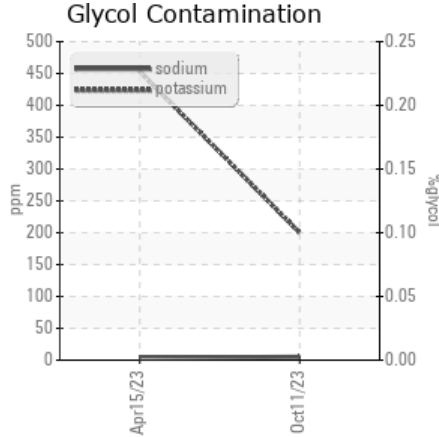
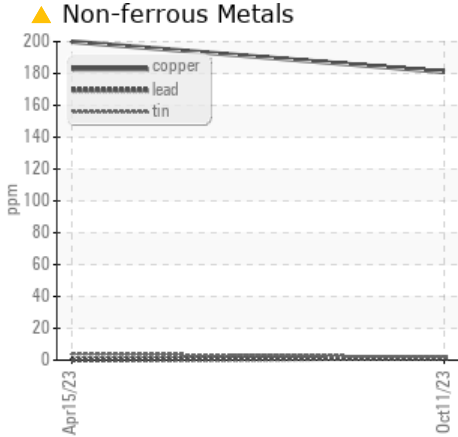
WEAR



Area
(54084Z) Walgreens - Tractor
 Machine Id
[Walgreens - Tractor] 136A63404
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (11 GAL)



COMPONENT CONDITION SUMMARY



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	ABNORMAL	---
Copper	ppm	ASTM D5185m	>150
	▲ 181	▲ 200	---

Customer Id: TSV1369
 Sample No.: PCA0106585
 Lab Number: 05986068
 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

15 Apr 2023 Diag: Don Baldrige

WEAR



Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. 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. 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. 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.

view report



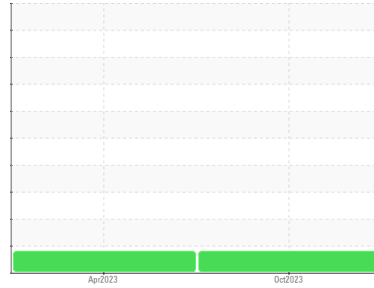
OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Area
(54084Z) Walgreens - Tractor
Machine Id
[Walgreens - Tractor] 136A63404
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 has decreased, but is still 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

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	PCA0106585	PCA0094968	---
Sample Date	Client Info	11 Oct 2023	15 Apr 2023	---
Machine Age	mls Client Info	98643	0	---
Oil Age	mls Client Info	56748	40000	---
Oil Changed	Client Info	Changed	Changed	---
Sample Status		ABNORMAL	ABNORMAL	---

CONTAMINATION

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

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >80	39	64	---
Chromium	ppm ASTM D5185m >5	6	9	---
Nickel	ppm ASTM D5185m >2	<1	1	---
Titanium	ppm ASTM D5185m	<1	<1	---
Silver	ppm ASTM D5185m >3	0	0	---
Aluminum	ppm ASTM D5185m >30	94	219	---
Lead	ppm ASTM D5185m >30	1	0	---
Copper	ppm ASTM D5185m >150	▲ 181	▲ 200	---
Tin	ppm ASTM D5185m >5	2	4	---
Vanadium	ppm ASTM D5185m	0	0	---
Cadmium	ppm ASTM D5185m	<1	0	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	7	33	---
Barium	ppm ASTM D5185m 0	0	0	---
Molybdenum	ppm ASTM D5185m 50	49	43	---
Manganese	ppm ASTM D5185m 0	2	5	---
Magnesium	ppm ASTM D5185m 950	784	507	---
Calcium	ppm ASTM D5185m 1050	1051	1782	---
Phosphorus	ppm ASTM D5185m 995	745	694	---
Zinc	ppm ASTM D5185m 1180	984	872	---
Sulfur	ppm ASTM D5185m 2600	1755	1829	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >20	8	11	---
Sodium	ppm ASTM D5185m	5	4	---
Potassium	ppm ASTM D5185m >20	200	453	---

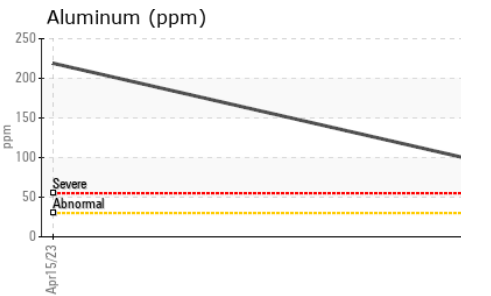
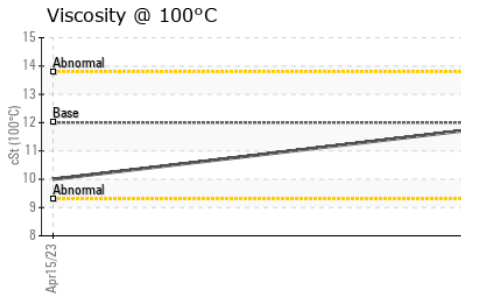
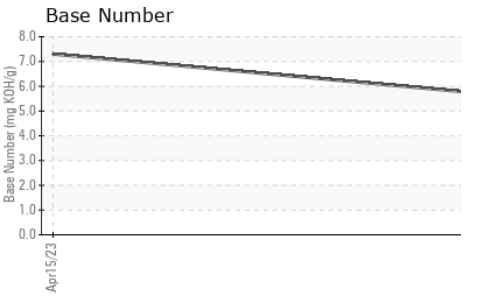
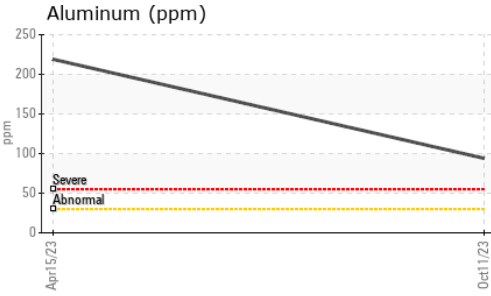
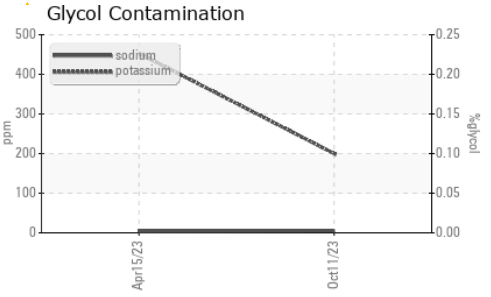
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.9	0.6	---
Nitration	Abs/cm *ASTM D7624 >20	9.0	9.6	---
Sulfation	Abs/.1mm *ASTM D7415 >30	24.8	23.0	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	23.4	23.7	---
Base Number (BN)	mg KOH/g ASTM D2896	5.7	7.3	---

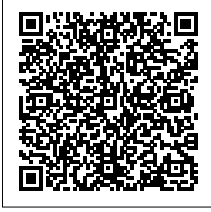
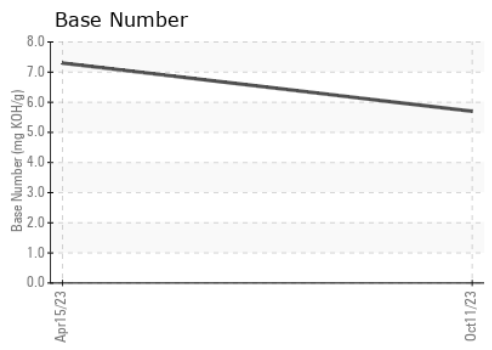
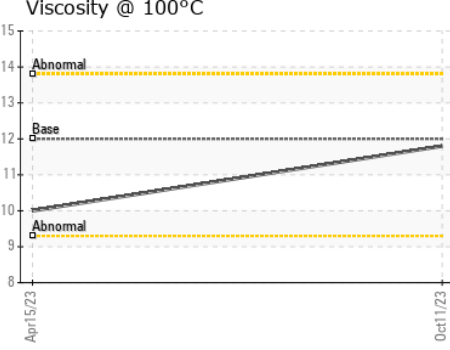
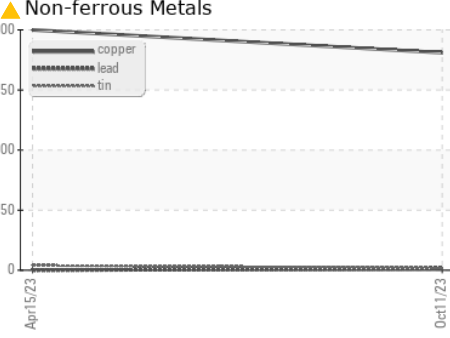
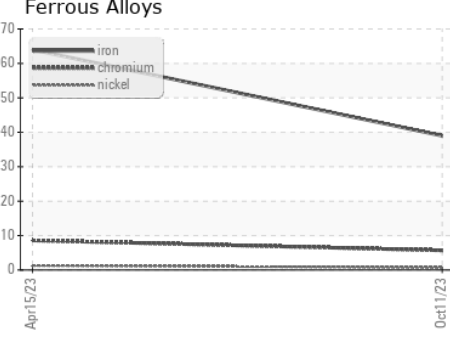
OIL ANALYSIS REPORT



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	11.8	10.0

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0106585 **Received** : 23 Oct 2023
Lab Number : 05986068 **Diagnosed** : 25 Oct 2023
Unique Number : 10708730 **Diagnostician** : Don Baldrige
Test Package : FLEET

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Certificate L2367
 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)