

PROBLEM SUMMARY

Sample Rating Trend

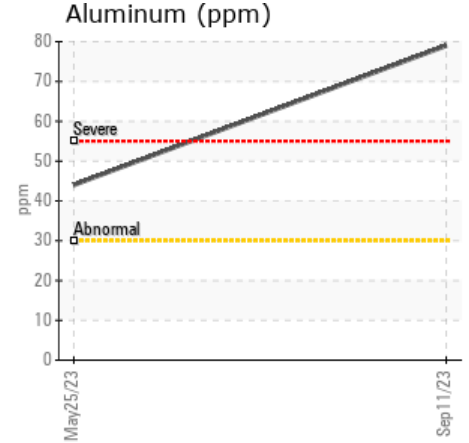
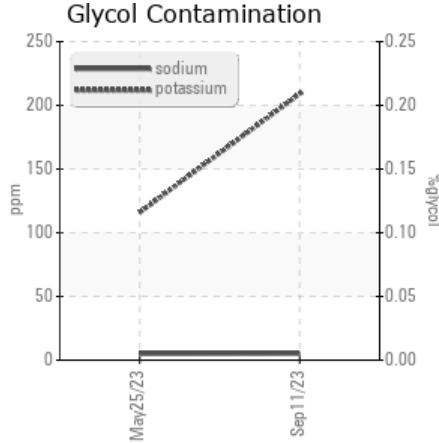
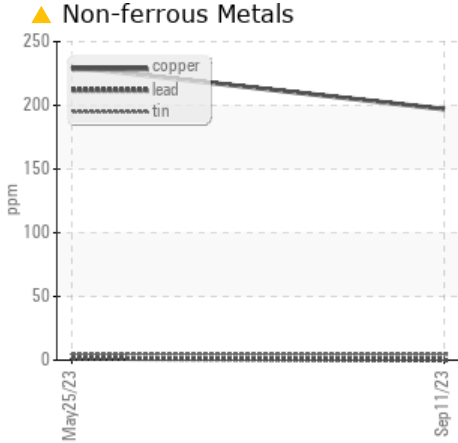
WEAR



Area
(55227Z) Walgreens - Tractor
 Machine Id
[Walgreens - Tractor] 136A63359
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (11 GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

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
	▲ 197	▲ 230	---

Customer Id: TSV1361
 Sample No.: PCA0105902
 Lab Number: 05964137
 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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

WEAR



25 May 2023 Diag: Don Baldrige

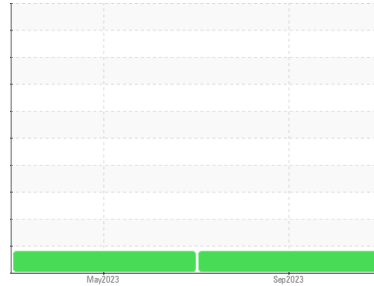
No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in. 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 suitable for further service.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
(55227Z) Walgreens - Tractor
Machine Id
[Walgreens - Tractor] 136A63359
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (11 GAL)

DIAGNOSIS

▲ Recommendation

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 metal levels are typical for a new component breaking in.

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 suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PCA0105902	PCA0091490	---
Sample Date	Client Info			11 Sep 2023	25 May 2023	---
Machine Age	mls Client Info			53738	33339	---
Oil Age	mls Client Info			33339	33339	---
Oil Changed	Client Info			N/A	Not Changd	---
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	73	58	---
Chromium	ppm	ASTM D5185m	>5	6	4	---
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	79	44	---
Lead	ppm	ASTM D5185m	>30	0	1	---
Copper	ppm	ASTM D5185m	>150	▲ 197	▲ 230	---
Tin	ppm	ASTM D5185m	>5	5	5	---
Vanadium	ppm	ASTM D5185m		0	<1	---
Cadmium	ppm	ASTM D5185m		0	<1	---

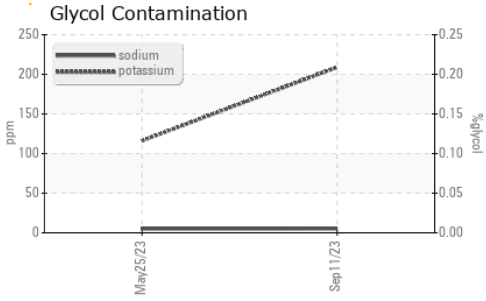
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	31	48	---
Barium	ppm	ASTM D5185m	0	2	0	---
Molybdenum	ppm	ASTM D5185m	50	44	43	---
Manganese	ppm	ASTM D5185m	0	5	5	---
Magnesium	ppm	ASTM D5185m	950	575	573	---
Calcium	ppm	ASTM D5185m	1050	1655	1850	---
Phosphorus	ppm	ASTM D5185m	995	749	741	---
Zinc	ppm	ASTM D5185m	1180	946	923	---
Sulfur	ppm	ASTM D5185m	2600	2050	2486	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	8	7	---
Sodium	ppm	ASTM D5185m		5	5	---
Potassium	ppm	ASTM D5185m	>20	209	116	---

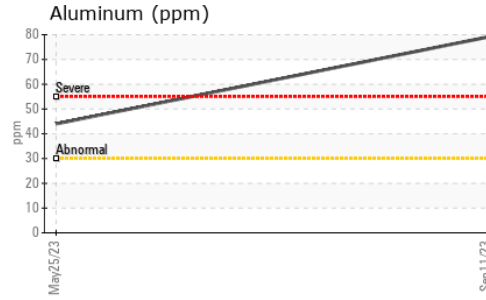
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.8	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	10.3	9.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.5	23.3	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.3	23.0	---
Base Number (BN)	mg KOH/g	ASTM D2896		7.1	8.5	---

OIL ANALYSIS REPORT

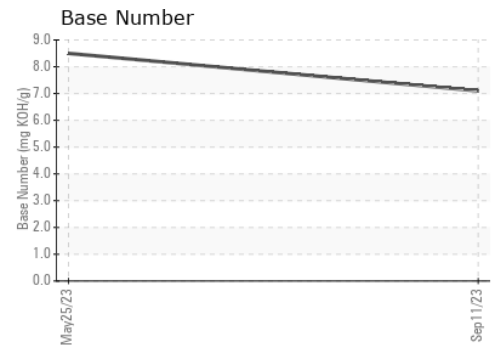
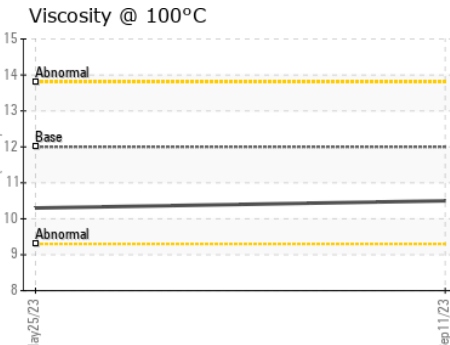
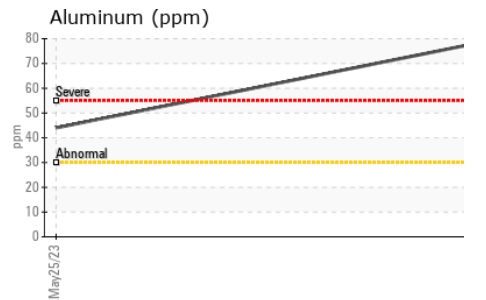
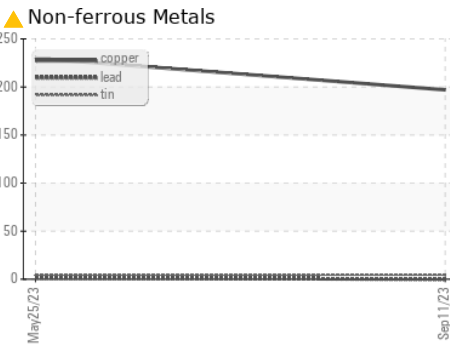
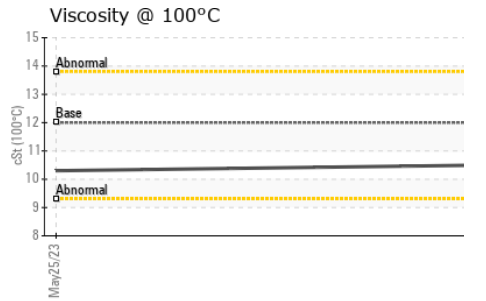
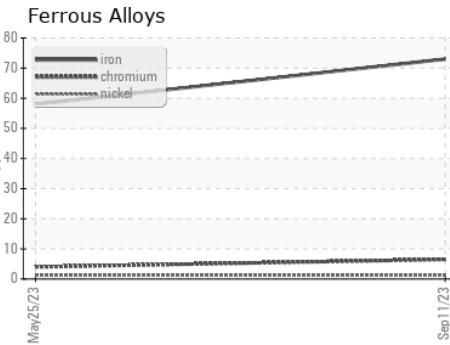
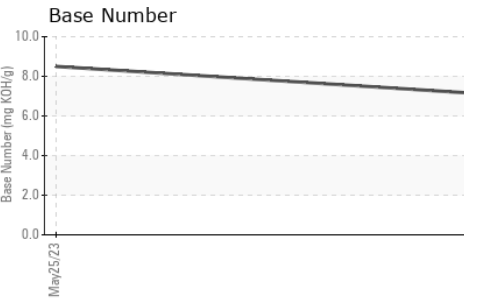


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	10.5	10.3

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0105902 **Received** : 28 Sep 2023
Lab Number : 05964137 **Diagnosed** : 01 Oct 2023
Unique Number : 10670688 **Diagnostician** : Don Baldrige
Test Package : FLEET

Transervice - Shop 1361 - Berkeley-Windsor
 4400 State Road 19
 Windsor, WI
 US 53598
 Contact: Mike Hurda
 mhurda@transervice.com
 T: (608)846-2726
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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)