

PROBLEM SUMMARY

Area
(59083Z) Walgreens - Tractor
 Machine Id
[Walgreens - Tractor] 136A624321
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (11 GAL)

Sample Rating Trend

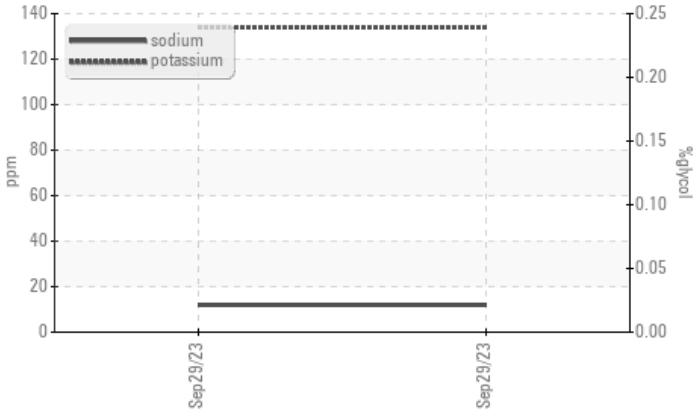


GLYCOL

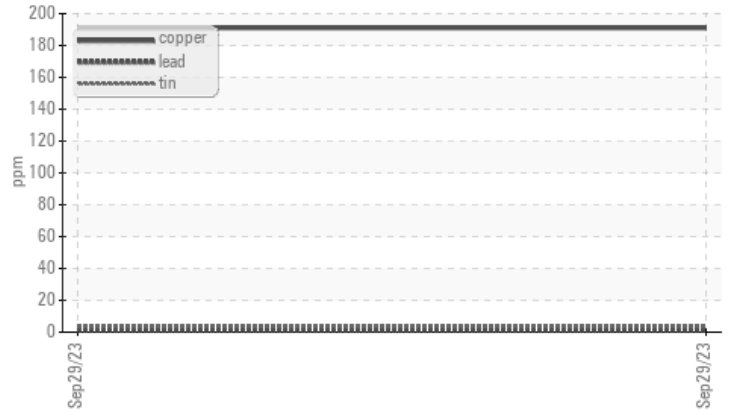


COMPONENT CONDITION SUMMARY

▲ Glycol Contamination



▲ Non-ferrous Metals



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	---	---
Copper	ppm	ASTM D5185m	>150	▲ 191	---	---
Potassium	ppm	ASTM D5185m	>20	▲ 134	---	---

Customer Id: TSV1365
 Sample No.: PCA0103700
 Lab Number: 05980312
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
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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.

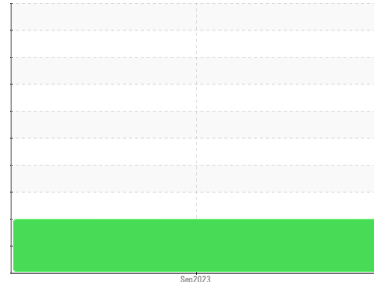
HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend

GLYCOL

Area
(59083Z) Walgreens - Tractor
Machine Id
[Walgreens - Tractor] 136A624321
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. 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

Sodium and/or potassium levels are high. Test for glycol is negative.

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	PCA0103700	---	---
Sample Date	Client Info	29 Sep 2023	---	---
Machine Age	mls Client Info	36964	---	---
Oil Age	mls Client Info	36964	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

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

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >80	79	---	---
Chromium	ppm ASTM D5185m >5	6	---	---
Nickel	ppm ASTM D5185m >2	1	---	---
Titanium	ppm ASTM D5185m	1	---	---
Silver	ppm ASTM D5185m >3	<1	---	---
Aluminum	ppm ASTM D5185m >30	45	---	---
Lead	ppm ASTM D5185m >30	1	---	---
Copper	ppm ASTM D5185m >150	▲ 191	---	---
Tin	ppm ASTM D5185m >5	4	---	---
Vanadium	ppm ASTM D5185m	<1	---	---
Cadmium	ppm ASTM D5185m	<1	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	25	---	---
Barium	ppm ASTM D5185m 0	4	---	---
Molybdenum	ppm ASTM D5185m 50	44	---	---
Manganese	ppm ASTM D5185m 0	6	---	---
Magnesium	ppm ASTM D5185m 950	540	---	---
Calcium	ppm ASTM D5185m 1050	1586	---	---
Phosphorus	ppm ASTM D5185m 995	656	---	---
Zinc	ppm ASTM D5185m 1180	824	---	---
Sulfur	ppm ASTM D5185m 2600	1845	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >20	8	---	---
Sodium	ppm ASTM D5185m	12	---	---
Potassium	ppm ASTM D5185m >20	▲ 134	---	---
Glycol	% *ASTM D2982	NEG	---	---

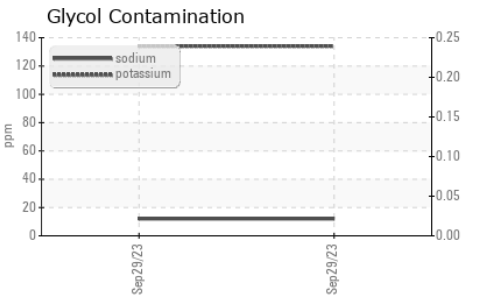
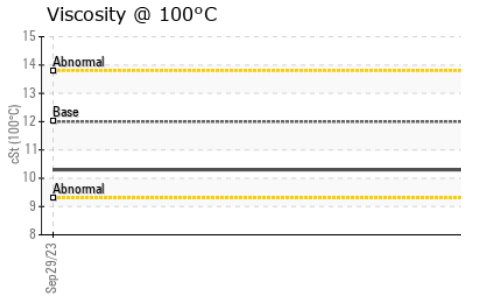
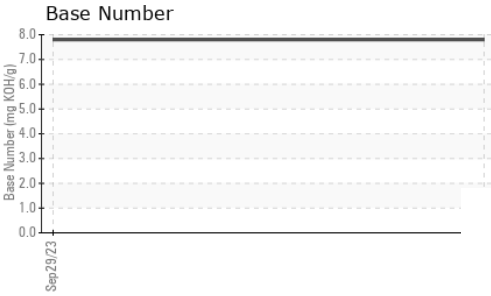
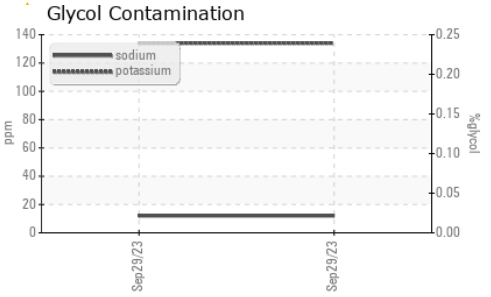
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.9	---	---
Nitration	Abs/cm *ASTM D7624 >20	10.1	---	---
Sulfation	Abs/.1mm *ASTM D7415 >30	23.3	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	23.0	---	---
Base Number (BN)	mg KOH/g ASTM D2896	7.8	---	---

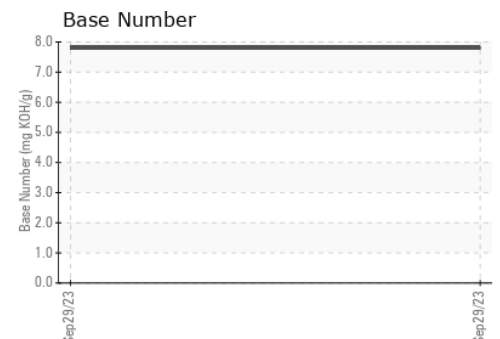
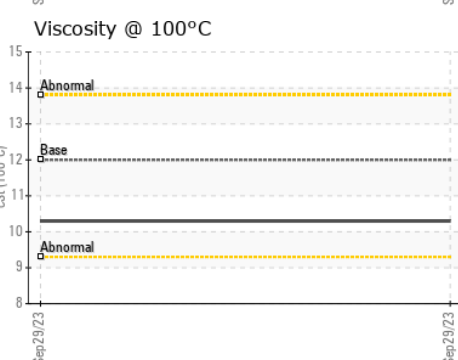
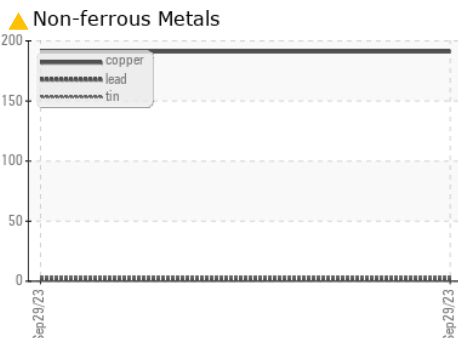
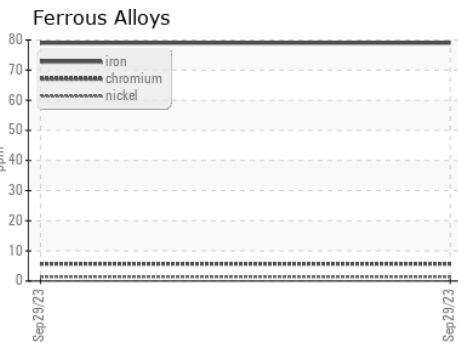
OIL ANALYSIS REPORT



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	10.3	---	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0103700 **Received** : 16 Oct 2023
Lab Number : 05980312 **Diagnosed** : 18 Oct 2023
Unique Number : 10697607 **Diagnostician** : Jonathan Hester
Test Package : FLEET (Additional Tests: Glycol)

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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)