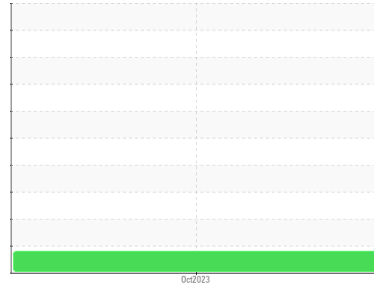


PROBLEM SUMMARY

Area
Walgreens - Tractor
 Machine for
[Walgreens - Tractor] 136A63370
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (11 GAL)

Sample Rating Trend

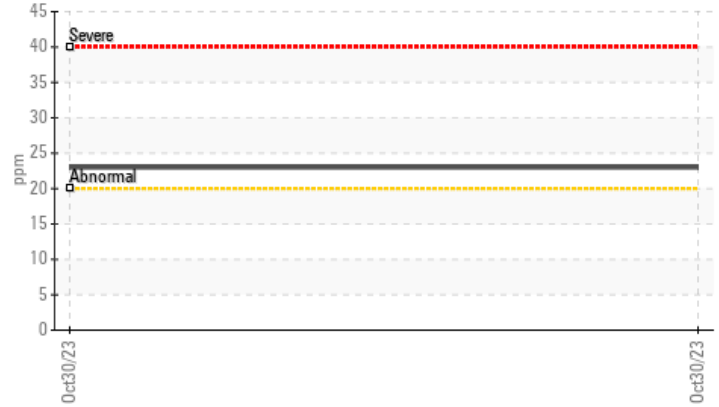


COMPONENT CONDITION SUMMARY

▲ Ferrous Alloys



Aluminum (ppm)



RECOMMENDATION

No corrective action is recommended at this time. 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		---	---
Nickel	ppm	ASTM D5185m >4	▲ 7	---

Customer Id: TSV1366
 Sample No.: PCA0105436
 Lab Number: 06011856
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Sean Felton +1 919-379-4092
sfelton@wearcheckusa.com

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

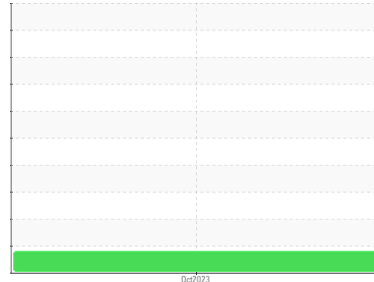
RECOMMENDED ACTIONS

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
Walgreens - Tractor
 Machine ID
[Walgreens - Tractor] 136A63370
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (11 GAL)

DIAGNOSIS

Recommendation

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

Wear

Exhaust valve wear is indicated.

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. 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	PCA0105436	---	---
Sample Date	Client Info	30 Oct 2023	---	---
Machine Age	mls Client Info	102889	---	---
Oil Age	mls Client Info	25000	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >2.0	<1.0	---	---
Water	WC Method >0.2	NEG	---	---
Glycol	WC Method	NEG	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >100	51	---	---
Chromium	ppm ASTM D5185m >20	3	---	---
Nickel	ppm ASTM D5185m >4	▲ 7	---	---
Titanium	ppm ASTM D5185m	<1	---	---
Silver	ppm ASTM D5185m >3	<1	---	---
Aluminum	ppm ASTM D5185m >20	23	---	---
Lead	ppm ASTM D5185m >40	4	---	---
Copper	ppm ASTM D5185m >330	17	---	---
Tin	ppm ASTM D5185m >15	2	---	---
Vanadium	ppm ASTM D5185m	0	---	---
Cadmium	ppm ASTM D5185m	0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	10	---	---
Barium	ppm ASTM D5185m 0	0	---	---
Molybdenum	ppm ASTM D5185m 50	79	---	---
Manganese	ppm ASTM D5185m 0	2	---	---
Magnesium	ppm ASTM D5185m 950	1100	---	---
Calcium	ppm ASTM D5185m 1050	1420	---	---
Phosphorus	ppm ASTM D5185m 995	1186	---	---
Zinc	ppm ASTM D5185m 1180	1559	---	---
Sulfur	ppm ASTM D5185m 2600	3422	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	18	---	---
Sodium	ppm ASTM D5185m	0	---	---
Potassium	ppm ASTM D5185m >20	60	---	---

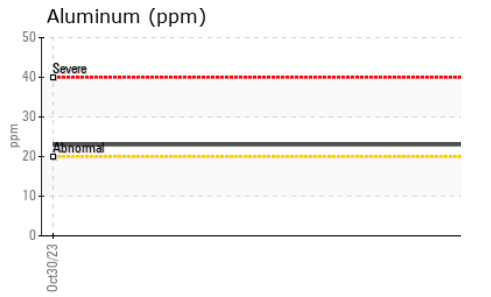
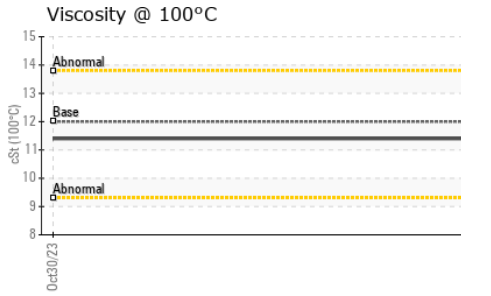
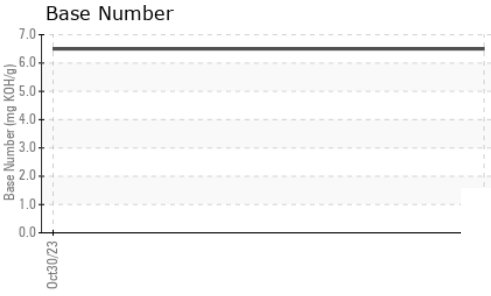
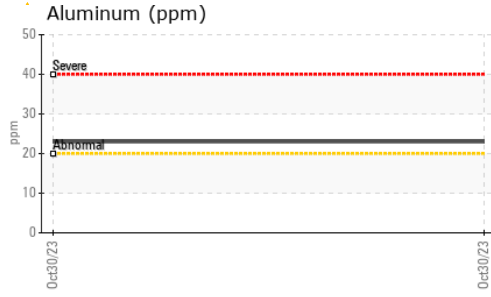
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.5	---	---
Nitration	Abs/cm *ASTM D7624 >20	9.4	---	---
Sulfation	Abs/.1mm *ASTM D7415 >30	22.0	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	18.9	---	---
Base Number (BN)	mg KOH/g ASTM D2896	6.5	---	---

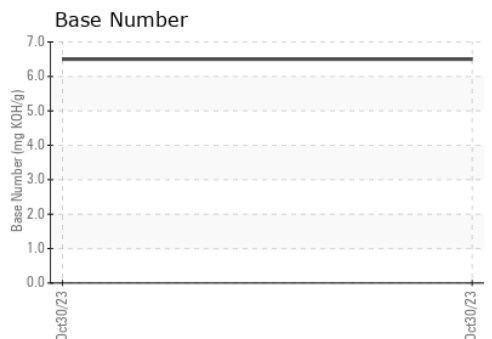
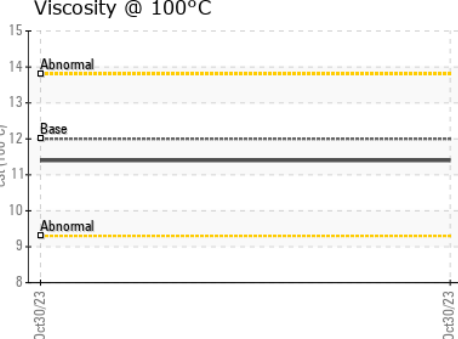
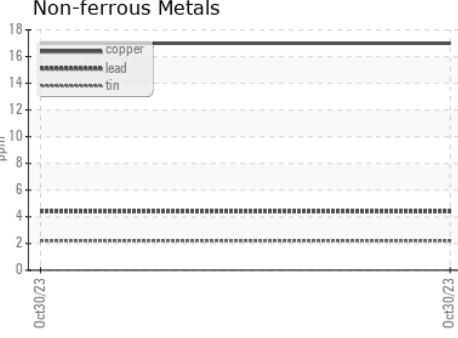
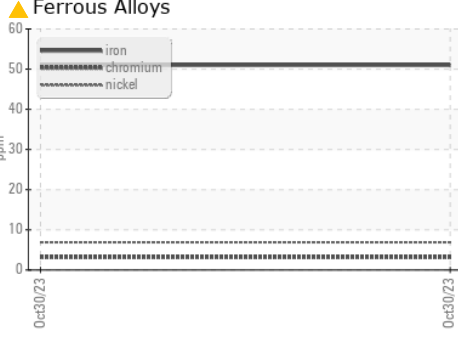
OIL ANALYSIS REPORT



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	11.4	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0105436 **Received** : 20 Nov 2023
Lab Number : **06011856** **Diagnosed** : 21 Nov 2023
Unique Number : 10751000 **Diagnostician** : Sean Felton
Test Package : FLEET

Transervice - Shop 1366 - Berkeley-Woodland
 2370 East Main Street
 Woodland, CA
 US 95776
 Contact: Gary Mann
 gmanna@transervice.com
 T: (530)666-7771
 F: (530)406-7971

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)