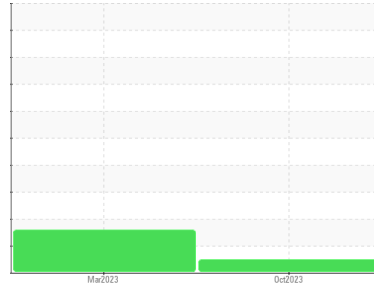


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL


Area
Walgreens - Tractor
 Machine for
[Walgreens - Tractor] 136A63362
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (11 GAL)

DIAGNOSIS
Recommendation

Resample at the next service interval to monitor.

Wear

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. 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 suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0105414	PCA0093821	---
Sample Date	Client Info		19 Oct 2023	27 Mar 2023	---
Machine Age	mls	Client Info	65579	19645	---
Oil Age	mls	Client Info	22539	19645	---
Oil Changed	Client Info		Not Changed	Not Changed	---
Sample Status			NORMAL	ABNORMAL	---

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	26	38	---
Chromium	ppm	ASTM D5185m >20	2	1	---
Nickel	ppm	ASTM D5185m >4	6	3	---
Titanium	ppm	ASTM D5185m	<1	0	---
Silver	ppm	ASTM D5185m >3	<1	<1	---
Aluminum	ppm	ASTM D5185m >20	20	20	---
Lead	ppm	ASTM D5185m >40	5	4	---
Copper	ppm	ASTM D5185m >330	10	25	---
Tin	ppm	ASTM D5185m >15	2	3	---
Vanadium	ppm	ASTM D5185m	<1	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	5	75	---
Barium	ppm	ASTM D5185m 0	0	0	---
Molybdenum	ppm	ASTM D5185m 50	71	61	---
Manganese	ppm	ASTM D5185m 0	<1	5	---
Magnesium	ppm	ASTM D5185m 950	1014	452	---
Calcium	ppm	ASTM D5185m 1050	1353	1726	---
Phosphorus	ppm	ASTM D5185m 995	1136	972	---
Zinc	ppm	ASTM D5185m 1180	1459	1264	---
Sulfur	ppm	ASTM D5185m 2600	3699	3400	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	12	▲ 39	---
Sodium	ppm	ASTM D5185m	<1	5	---
Potassium	ppm	ASTM D5185m >20	47	67	---

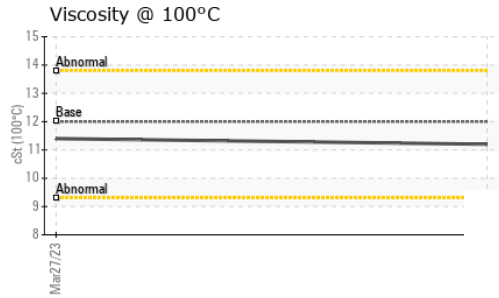
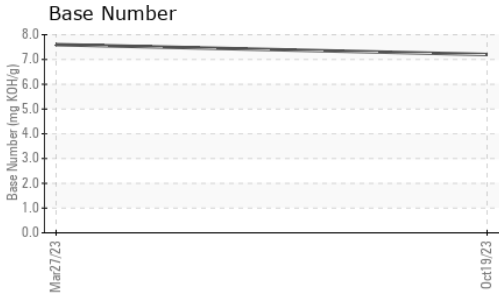
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.2	0.2	---
Nitration	Abs/cm	*ASTM D7624 >20	8.2	8.0	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	20.6	21.4	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	17.7	18.2	---
Base Number (BN)	mg KOH/g	ASTM D2896	7.2	7.6	---

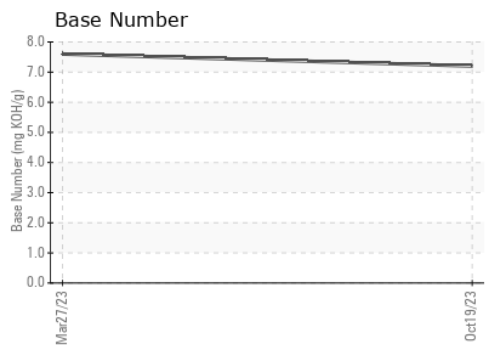
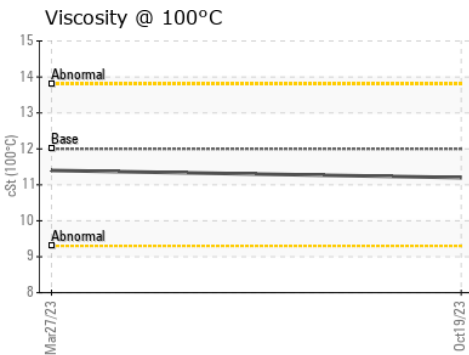
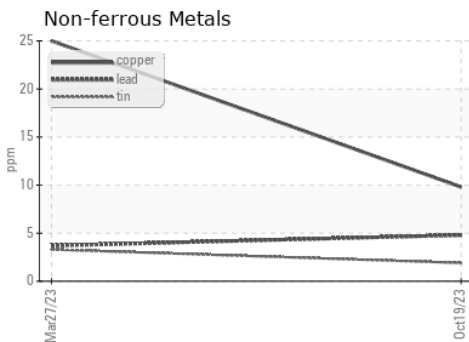
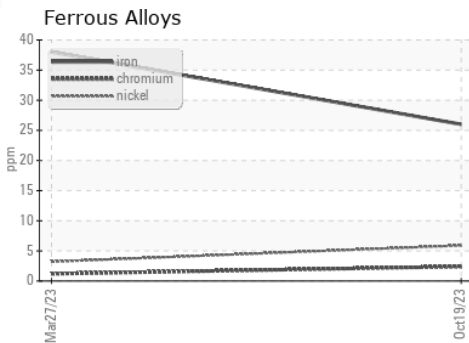
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---
Free Water	scalar	*Visual		NEG	NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	12.00	11.2	11.4	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0105414 **Received** : 09 Nov 2023
Lab Number : **06002642** **Diagnosed** : 29 Dec 2023
Unique Number : 10736404 **Diagnostician** : Wes Davis
Test Package : FLEET

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

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)