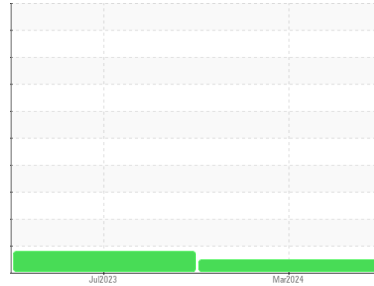


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
(55217Z) Walgreens - Tractor
Machine Id
[Walgreens - Tractor] 136A63266
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

All 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		PCA0107534	PCA0094393	---
Sample Date	Client Info		15 Mar 2024	02 Jul 2023	---
Machine Age	mls	Client Info	84869	42798	---
Oil Age	mls	Client Info	84869	42798	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			NORMAL	ABNORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<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	>80	48	68	---
Chromium	ppm	ASTM D5185m	>5	5	6	---
Nickel	ppm	ASTM D5185m	>2	<1	2	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m	>3	0	<1	---
Aluminum	ppm	ASTM D5185m	>30	67	205	---
Lead	ppm	ASTM D5185m	>30	<1	0	---
Copper	ppm	ASTM D5185m	>150	104	203	---
Tin	ppm	ASTM D5185m	>5	2	7	---
Vanadium	ppm	ASTM D5185m		0	0	---
Cadmium	ppm	ASTM D5185m		0	0	---

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	2	4	25	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	50	58	44	---
Manganese	ppm	ASTM D5185m	0	2	5	---
Magnesium	ppm	ASTM D5185m	950	875	529	---
Calcium	ppm	ASTM D5185m	1050	1279	1582	---
Phosphorus	ppm	ASTM D5185m	995	900	689	---
Zinc	ppm	ASTM D5185m	1180	1152	886	---
Sulfur	ppm	ASTM D5185m	2600	2255	2025	---

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>20	8	9	---
Sodium	ppm	ASTM D5185m		4	5	---
Potassium	ppm	ASTM D5185m	>20	140	454	---

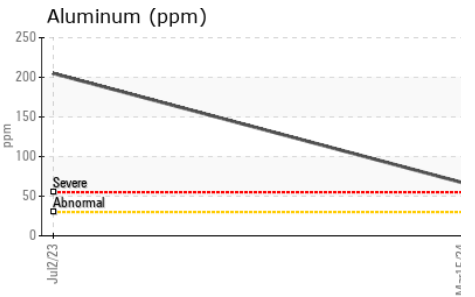
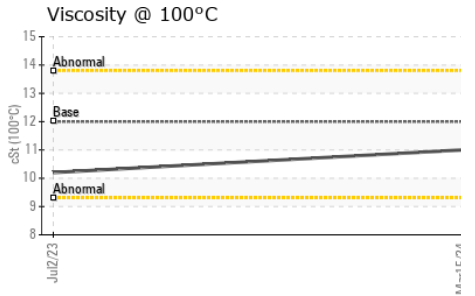
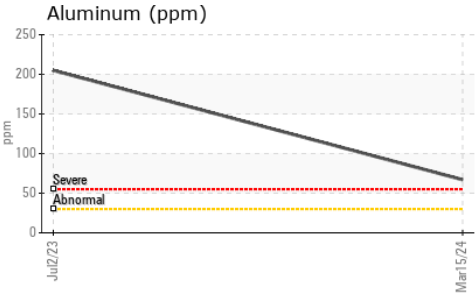
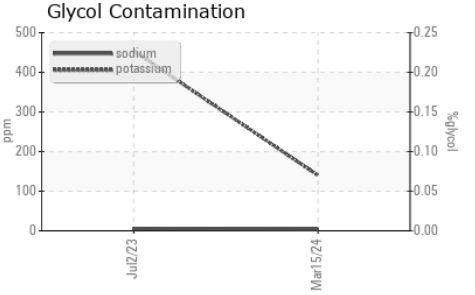
INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	1.1	0.9	---
Nitration	Abs/cm	*ASTM D7624	>20	9.5	10.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	24.4	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.1	24.7	---
Base Number (BN)	mg KOH/g	ASTM D2896		6.5	7.4	---

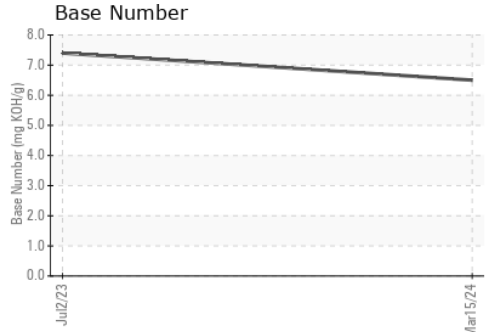
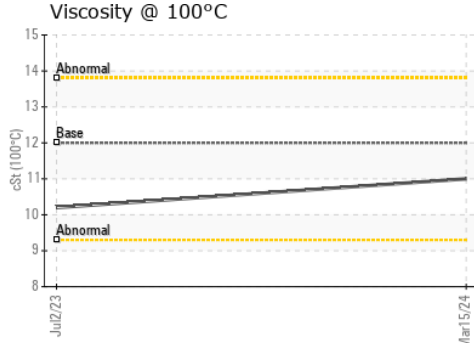
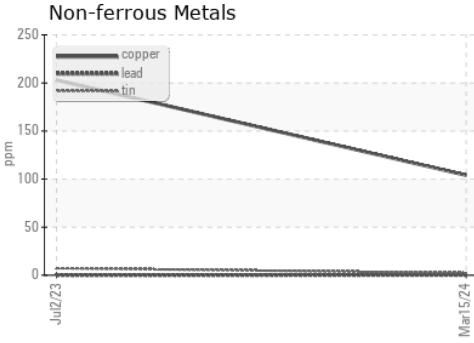
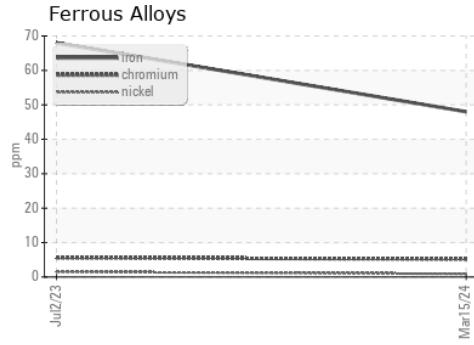
OIL ANALYSIS REPORT



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	11.0	10.2

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0107534
Lab Number : **06121359**
Unique Number : 10930192
Test Package : FLEET

Transervice - Shop 1367 - Berkeley-Jupiter
 15998 Walgreens Drive
 Jupiter, FL
 US 33478
 Contact: Manny Gonzalez
 egonzalez@transervice.com
 T: (561)776-0755
 F: (561)776-0799

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)