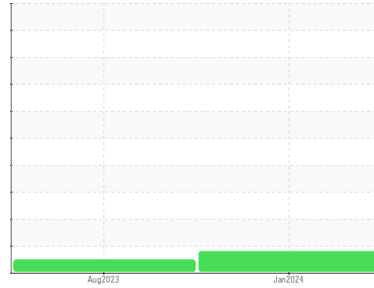


OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
(94693X) Walgreens - Tractor
Machine Id
[Walgreens - Tractor] 136A62052
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

The aluminum level is abnormal. All other component wear rates are normal.

Contamination

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		PCA0110558	PCA0093534	---
Sample Date	Client Info		31 Jan 2024	15 Aug 2023	---
Machine Age	mls	Client Info	466052	466052	---
Oil Age	mls	Client Info	466052	44371	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			ABNORMAL	NORMAL	---

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	49	35	---
Chromium	ppm	ASTM D5185m >5	5	3	---
Nickel	ppm	ASTM D5185m >2	<1	1	---
Titanium	ppm	ASTM D5185m	5	3	---
Silver	ppm	ASTM D5185m >3	0	2	---
Aluminum	ppm	ASTM D5185m >30	▲ 30	14	---
Lead	ppm	ASTM D5185m >30	0	0	---
Copper	ppm	ASTM D5185m >150	8	9	---
Tin	ppm	ASTM D5185m >5	1	1	---
Vanadium	ppm	ASTM D5185m	<1	<1	---
Cadmium	ppm	ASTM D5185m	0	<1	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	9	4	---
Barium	ppm	ASTM D5185m 0	0	0	---
Molybdenum	ppm	ASTM D5185m 50	56	69	---
Manganese	ppm	ASTM D5185m 0	<1	<1	---
Magnesium	ppm	ASTM D5185m 950	881	1058	---
Calcium	ppm	ASTM D5185m 1050	1199	1434	---
Phosphorus	ppm	ASTM D5185m 995	997	1228	---
Zinc	ppm	ASTM D5185m 1180	1214	1466	---
Sulfur	ppm	ASTM D5185m 2600	2944	3454	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	5	6	---
Sodium	ppm	ASTM D5185m	2	2	---
Potassium	ppm	ASTM D5185m >20	<1	3	---

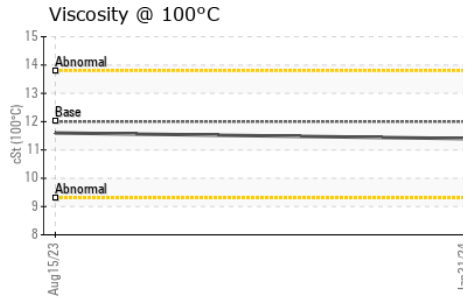
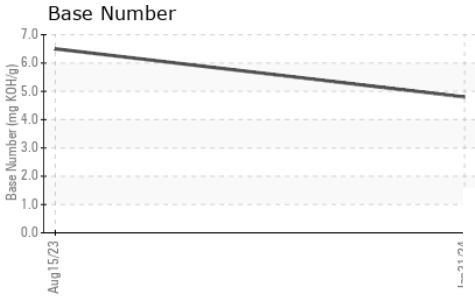
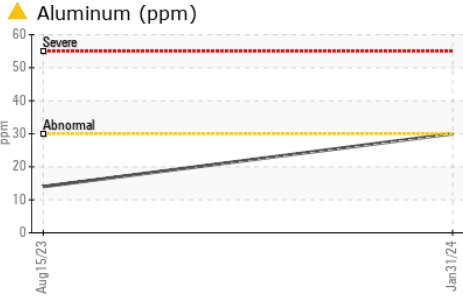
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.7	0.9	---
Nitration	Abs/cm	*ASTM D7624 >20	7.9	8.5	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	18.9	20.6	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	14.6	15.6	---
Base Number (BN)	mg KOH/g	ASTM D2896	4.8	6.5	---

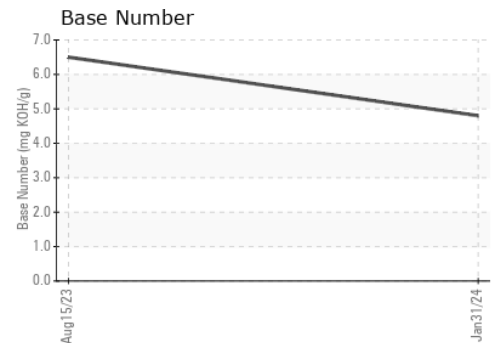
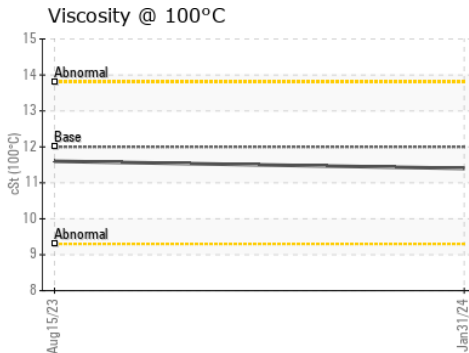
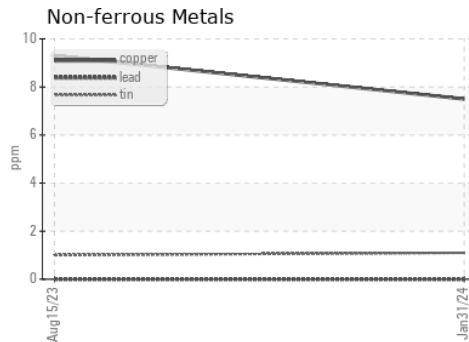
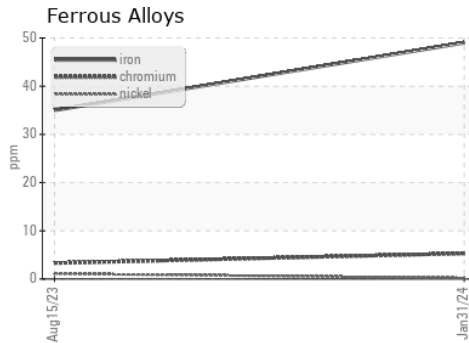
OIL ANALYSIS REPORT



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	11.6

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0110558
Lab Number : 06084475
Unique Number : 10871920
Test Package : FLEET

Received : 09 Feb 2024
Tested : 09 Feb 2024
Diagnosed : 12 Feb 2024 - Don Baldrige

Transervice - Shop 1376 - Berkeley-Linden
 3425 Tremley Point Road
 Linden, NJ
 US 07036

Contact: Shop 1376 Oil Analysis
 shop1376@transervice.com

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)

T:
F: