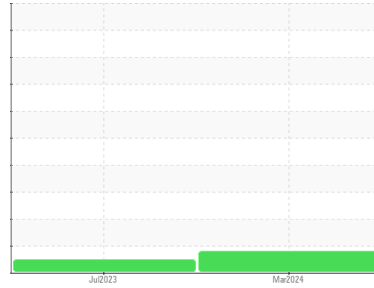


OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
(92426X) Walgreens - Tractor
Machine Id
[Walgreens - Tractor] 136A62013
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 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 acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0119340	PCA0088336	---
Sample Date	Client Info		06 Mar 2024	10 Jul 2023	---
Machine Age	mls	Client Info	404114	354579	---
Oil Age	mls	Client Info	25000	25000	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			ABNORMAL	NORMAL	---

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	93	38
Chromium	ppm	ASTM D5185m	>20	4	2
Nickel	ppm	ASTM D5185m	>4	0	0
Titanium	ppm	ASTM D5185m		<1	<1
Silver	ppm	ASTM D5185m	>3	0	0
Aluminum	ppm	ASTM D5185m	>20	▲ 28	19
Lead	ppm	ASTM D5185m	>40	3	0
Copper	ppm	ASTM D5185m	>330	2	1
Tin	ppm	ASTM D5185m	>15	<1	0
Vanadium	ppm	ASTM D5185m		0	0
Cadmium	ppm	ASTM D5185m		0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	0	<1
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	50	71	63
Manganese	ppm	ASTM D5185m	0	1	<1
Magnesium	ppm	ASTM D5185m	950	692	1009
Calcium	ppm	ASTM D5185m	1050	1400	1138
Phosphorus	ppm	ASTM D5185m	995	1002	1053
Zinc	ppm	ASTM D5185m	1180	1213	1342
Sulfur	ppm	ASTM D5185m	2600	3518	3829

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	3
Sodium	ppm	ASTM D5185m		4	2
Potassium	ppm	ASTM D5185m	>20	33	20

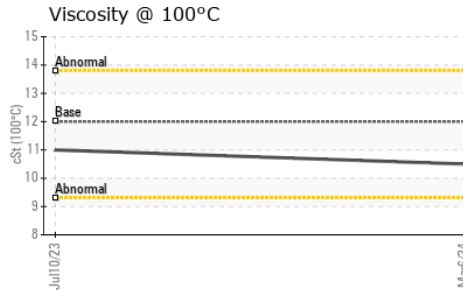
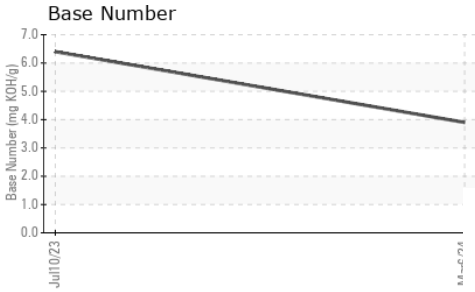
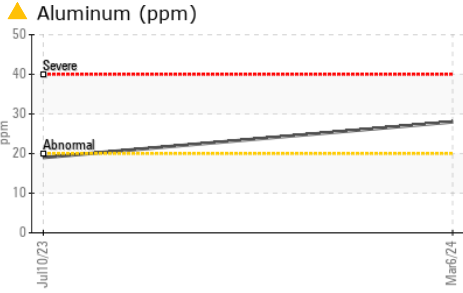
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.8	0.5
Nitration	Abs/cm	*ASTM D7624	>20	12.2	10.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.7	20.8

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.6	16.9
Base Number (BN)	mg KOH/g	ASTM D2896		3.9	6.4

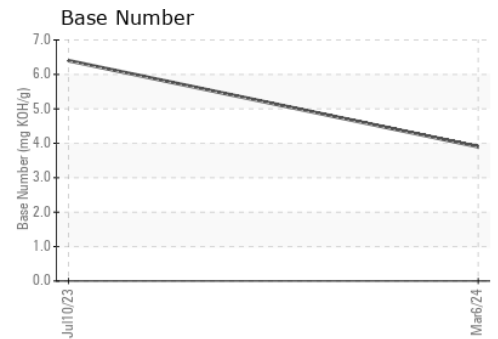
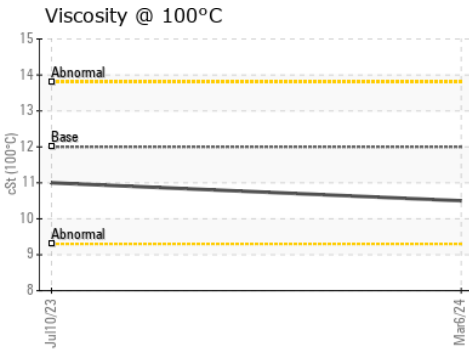
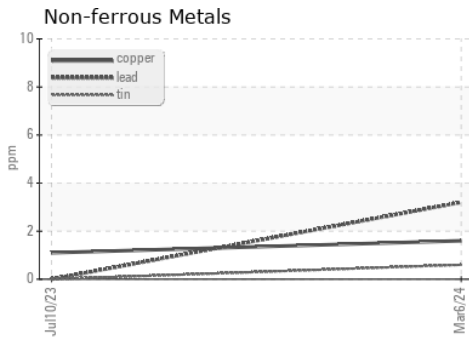
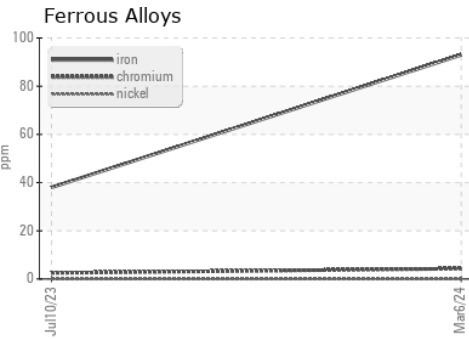
OIL ANALYSIS REPORT



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	10.5	11.0

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0119340
Lab Number : 06116326
Unique Number : 10925159
Test Package : FLEET

Transervice - Shop 1377 - Berkeley-Dayville
 68 Shepherd Hill Rd
 Danielson, CT
 US 06239
 Contact: Shop 1377 Oil Analysis
 shop1377@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: