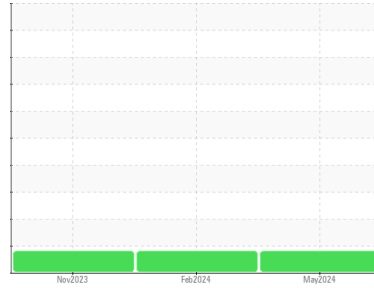


OIL ANALYSIS REPORT

Area
Walgreens - Tractor
 Machine #
[Walgreens - Tractor] 136A624269
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (11 GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation
 No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear
 The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). 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		PCA0119109	PCA0105943	PCA0105912
Sample Date	Client Info		29 May 2024	07 Feb 2024	13 Nov 2023
Machine Age	hrs	Client Info	70610	50562	0
Oil Age	hrs	Client Info	70610	0	25856
Oil Changed		Client Info	N/A	N/A	N/A
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	<1.0
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >80	27	61	34
Chromium	ppm	ASTM D5185m >5	2	6	4
Nickel	ppm	ASTM D5185m >2	<1	2	1
Titanium	ppm	ASTM D5185m	<1	<1	0
Silver	ppm	ASTM D5185m >3	1	<1	<1
Aluminum	ppm	ASTM D5185m >30	13	53	44
Lead	ppm	ASTM D5185m >30	<1	<1	3
Copper	ppm	ASTM D5185m >150	▲ 487	▲ 311	▲ 290
Tin	ppm	ASTM D5185m >5	2	4	3
Vanadium	ppm	ASTM D5185m	0	<1	<1
Cadmium	ppm	ASTM D5185m	0	<1	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	3	29	38
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 50	62	46	43
Manganese	ppm	ASTM D5185m 0	1	6	4
Magnesium	ppm	ASTM D5185m 950	911	565	482
Calcium	ppm	ASTM D5185m 1050	1199	1628	1742
Phosphorus	ppm	ASTM D5185m 995	1161	774	755
Zinc	ppm	ASTM D5185m 1180	1218	882	882
Sulfur	ppm	ASTM D5185m 2600	3049	2344	1728

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	5	9	8
Sodium	ppm	ASTM D5185m	0	2	8
Potassium	ppm	ASTM D5185m >20	30	139	123

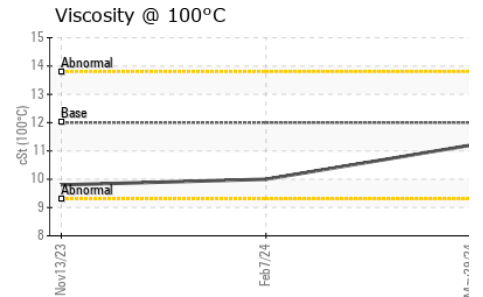
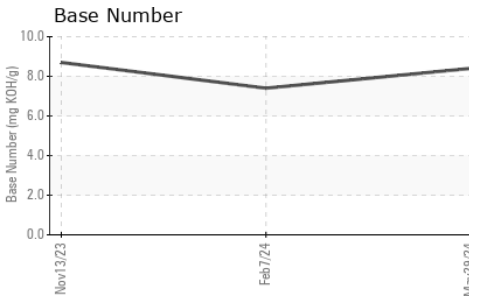
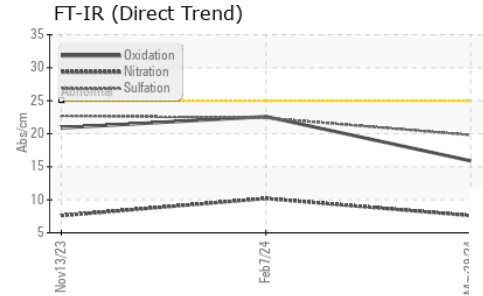
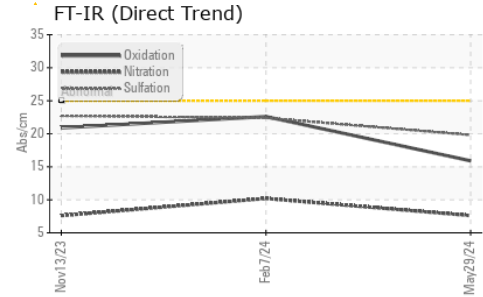
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.4	0.6	0.3
Nitration	Abs/cm	*ASTM D7624 >20	7.6	10.2	7.6
Sulfation	Abs/.1mm	*ASTM D7415 >30	19.8	22.4	22.7

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	15.9	22.6	20.9
Base Number (BN)	mg KOH/g	ASTM D2896	8.4	7.4	8.7

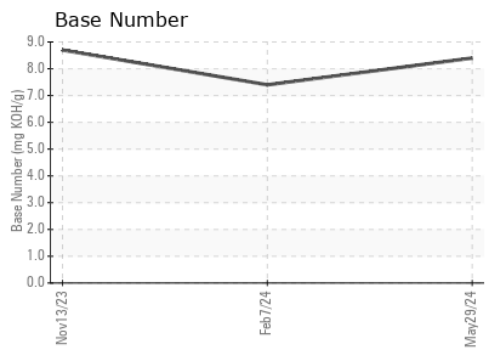
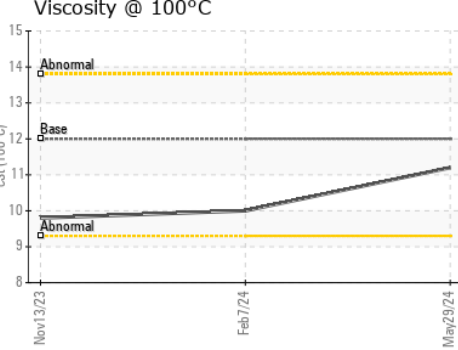
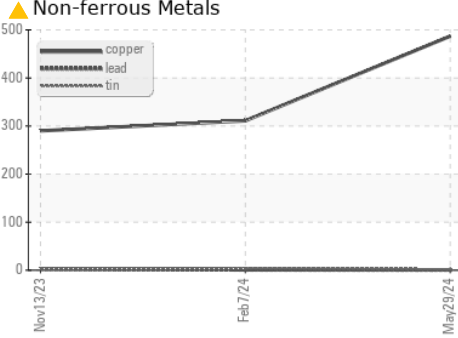
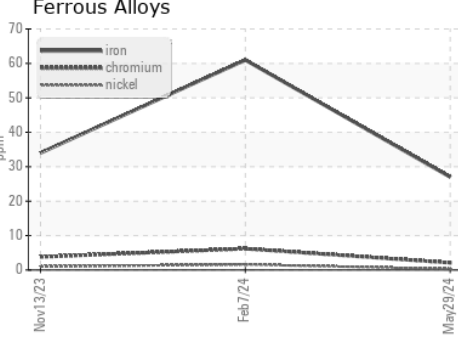
OIL ANALYSIS REPORT



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	10.0	9.8

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0119109 **Received** : 06 Jun 2024
Lab Number : 06202233 **Tested** : 11 Jun 2024
Unique Number : 11069694 **Diagnosed** : 11 Jun 2024 - Sean Felton
Test Package : FLEET

Transervice - Shop 1361 - Berkeley-Windsor
 4400 State Road 19
 Windsor, WI
 US 53598
 Contact: Mike Hurda
 mhurda@transervice.com
 T: (608)846-2726
 F: (608)846-0389

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)