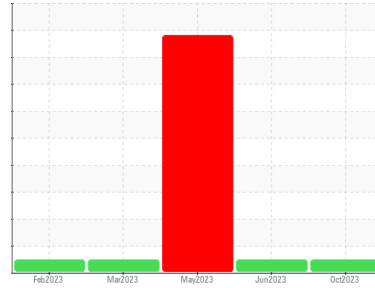


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
(51484Z) Walgreens - Tractor
Machine Id
[Walgreens - Tractor] 136A63399
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (40 QTS)

DIAGNOSIS

Recommendation

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. 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		PCA0094335	PCA0094366	PCA0094372
Sample Date	Client Info		15 Oct 2023	28 Jun 2023	25 May 2023
Machine Age	mls	Client Info	162130	125453	107283
Oil Age	mls	Client Info	0	0	83486
Oil Changed	Client Info		N/A	Not Changd	N/A
Sample Status			NORMAL	NORMAL	SEVERE

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	<1.0
Glycol	WC Method		NEG	0.0	0.10

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >80	53	37	120
Chromium	ppm	ASTM D5185m >5	5	3	9
Nickel	ppm	ASTM D5185m >2	<1	<1	1
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >30	76	69	254
Lead	ppm	ASTM D5185m >30	0	<1	<1
Copper	ppm	ASTM D5185m >150	45	116	168
Tin	ppm	ASTM D5185m >5	1	1	3
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	5	4	17
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 50	58	58	49
Manganese	ppm	ASTM D5185m 0	2	1	5
Magnesium	ppm	ASTM D5185m 950	881	855	658
Calcium	ppm	ASTM D5185m 1050	1263	1213	1916
Phosphorus	ppm	ASTM D5185m 995	794	956	782
Zinc	ppm	ASTM D5185m 1180	1187	1186	997
Sulfur	ppm	ASTM D5185m 2600	1966	2828	2245

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	11	7	16
Sodium	ppm	ASTM D5185m	4	2	11
Potassium	ppm	ASTM D5185m >20	148	130	497

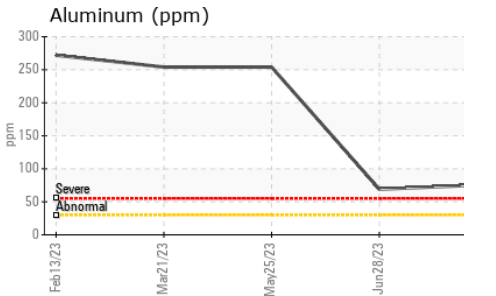
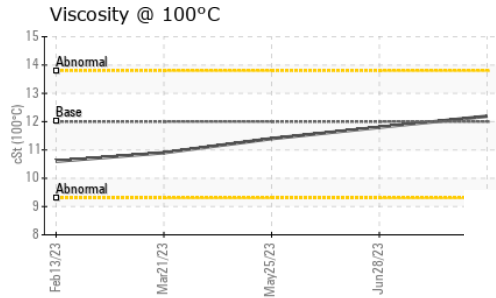
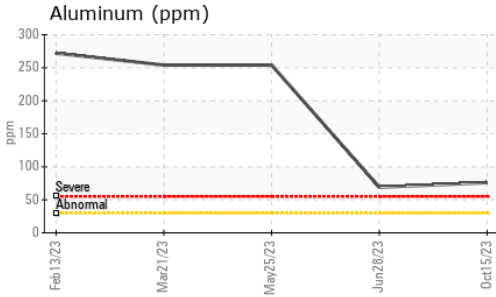
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.9	0.3	1.3
Nitration	Abs/cm	*ASTM D7624 >20	10.9	5.1	15.6
Sulfation	Abs/.1mm	*ASTM D7415 >30	23.0	18.2	28.9

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	22.8	14.2	35.8
Base Number (BN)	mg KOH/g	ASTM D2896	3.9	9.5	4.3

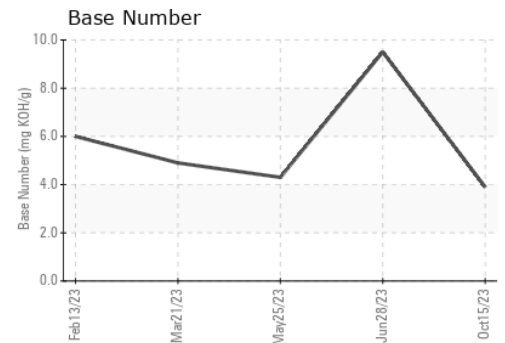
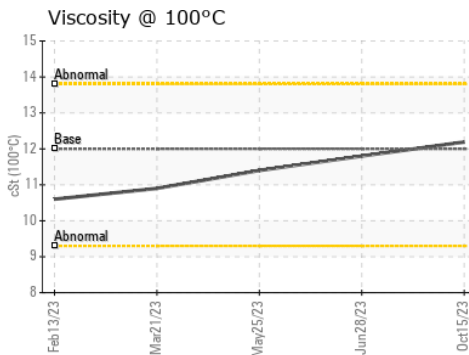
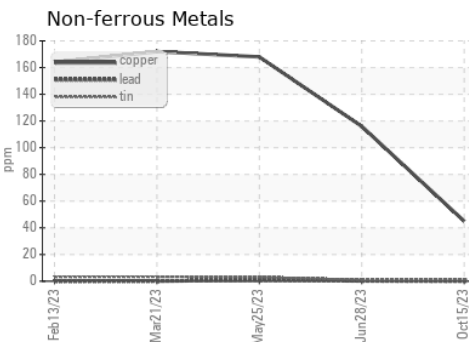
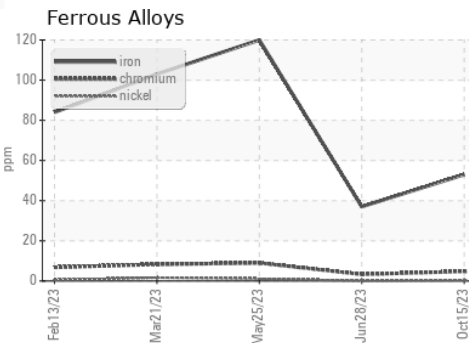
OIL ANALYSIS REPORT



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	12.19	11.8	11.4

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0094335
Lab Number : 05979300
Unique Number : 10696595
Test Package : FLEET

Transervice - Shop 1363 - Berkeley-Orlando
 2455 Premier Row
 Orlando, FL
 US 32809

Contact: James Bennett
 jbennett@transervice.com
 T: (407)856-8590
 F: (407)856-2269

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)