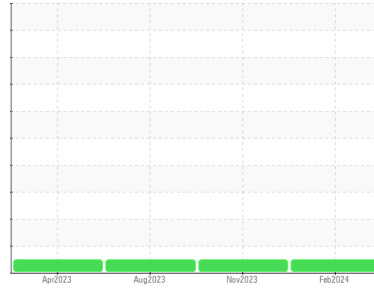


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
(89777X) Walgreens - Tractor
Machine Id
[Walgreens - Tractor] 136A69021
Component
Diesel Engine
Fluid
PETRO CANADA DURON UHP 10W40 (11 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All 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. Confirm oil type. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0117910	PCA0105430	PCA0093839
Sample Date	Client Info		20 Feb 2024	06 Nov 2023	02 Aug 2023
Machine Age	mls	Client Info	621934	606543	591465
Oil Age	mls	Client Info	25000	15078	54000
Oil Changed	Client Info		Changed	Not Changd	Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
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	30	15	40
Chromium	ppm	ASTM D5185m >5	2	<1	2
Nickel	ppm	ASTM D5185m >2	<1	<1	0
Titanium	ppm	ASTM D5185m	0	<1	0
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >30	11	4	20
Lead	ppm	ASTM D5185m >30	<1	0	0
Copper	ppm	ASTM D5185m >150	3	3	5
Tin	ppm	ASTM D5185m >5	0	0	<1
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	4	8	0
Barium	ppm	ASTM D5185m 0	0	0	2
Molybdenum	ppm	ASTM D5185m 60	61	62	67
Manganese	ppm	ASTM D5185m 0	<1	0	<1
Magnesium	ppm	ASTM D5185m 1010	1007	910	980
Calcium	ppm	ASTM D5185m 1070	1105	1066	1173
Phosphorus	ppm	ASTM D5185m 1150	1016	974	1061
Zinc	ppm	ASTM D5185m 1270	1239	1165	1304
Sulfur	ppm	ASTM D5185m 2060	2739	2979	2837

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	5	4	6
Sodium	ppm	ASTM D5185m	2	0	0
Potassium	ppm	ASTM D5185m >20	13	7	32
Fuel	%	ASTM D3524 >5	<1.0	<1.0	<1.0

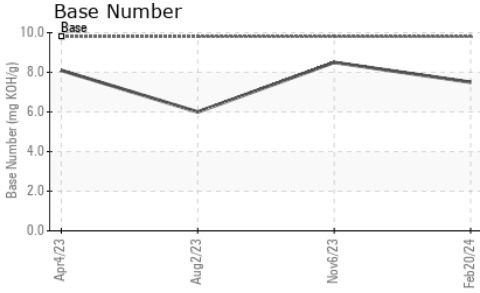
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.5	0.3	0.8
Nitration	Abs/cm	*ASTM D7624 >20	8.6	6.9	9.5
Sulfation	Abs/.1mm	*ASTM D7415 >30	19.8	19.4	22.4

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	15.9	14.9	18.6
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	7.5	8.5	6.0

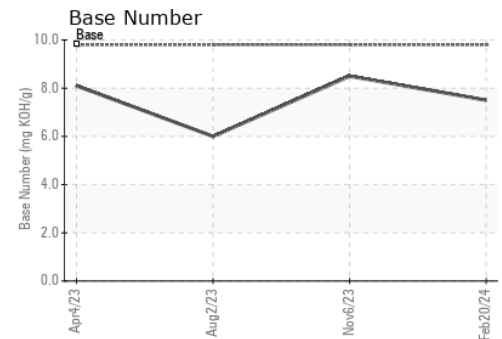
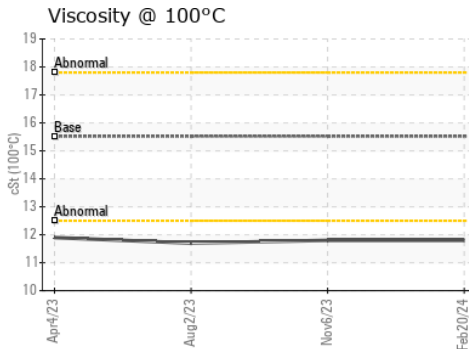
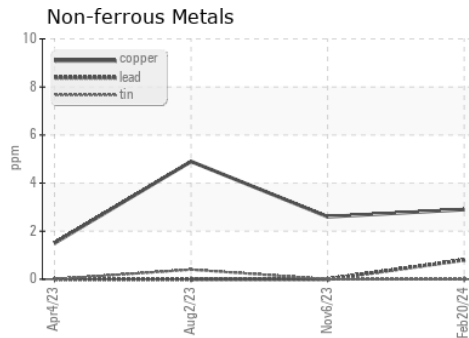
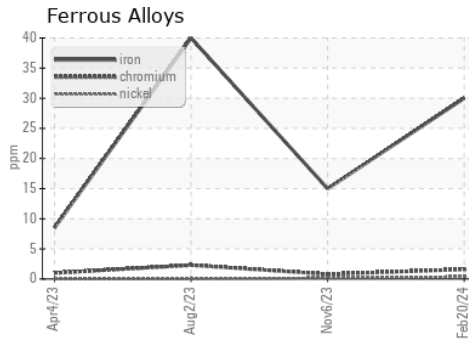
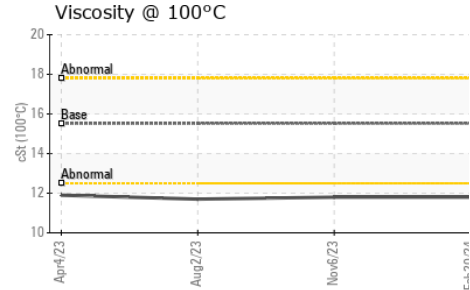
OIL ANALYSIS REPORT



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	15.52	11.8	11.8

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0117910 **Received** : 08 Mar 2024
Lab Number : 06112449 **Tested** : 08 Mar 2024
Unique Number : 10915946 **Diagnosed** : 11 Mar 2024 - Don Baldrige
Test Package : FLEET (Additional Tests: FuelDilution)

Transervice - Shop 1366 - Berkeley-Woodland
 2370 East Main Street
 Woodland, CA
 US 95776
 Contact: Gary Mann
 gmanna@transervice.com
 T: (530)666-7771
 F: (530)406-7971

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)