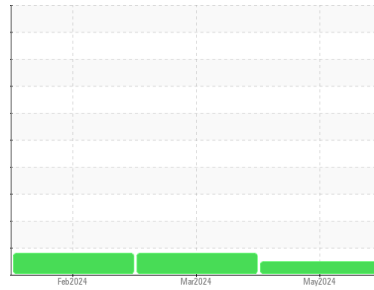


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
(65643Z) Walgreens - Tractor
 Machine Id
[Walgreens - Tractor] 136A624197
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (11 GAL)

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		PCA0120825	PCA0106572	PCA0103569
Sample Date	Client Info		29 May 2024	05 Mar 2024	06 Feb 2024
Machine Age	mls	Client Info	101555	52061	63226
Oil Age	mls	Client Info	60000	50000	63226
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	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	35	63	74
Chromium	ppm	ASTM D5185m >5	3	5	6
Nickel	ppm	ASTM D5185m >2	<1	2	2
Titanium	ppm	ASTM D5185m	0	<1	0
Silver	ppm	ASTM D5185m >3	<1	0	0
Aluminum	ppm	ASTM D5185m >30	52	57	201
Lead	ppm	ASTM D5185m >30	0	1	3
Copper	ppm	ASTM D5185m >150	108	▲ 142	▲ 199
Tin	ppm	ASTM D5185m >5	2	7	8
Vanadium	ppm	ASTM D5185m	0	<1	<1
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	3	31	27
Barium	ppm	ASTM D5185m 0	0	<1	<1
Molybdenum	ppm	ASTM D5185m 50	56	39	44
Manganese	ppm	ASTM D5185m 0	2	5	5
Magnesium	ppm	ASTM D5185m 950	894	559	559
Calcium	ppm	ASTM D5185m 1050	1131	1804	1797
Phosphorus	ppm	ASTM D5185m 995	905	753	734
Zinc	ppm	ASTM D5185m 1180	1140	879	913
Sulfur	ppm	ASTM D5185m 2600	2331	2261	1680

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	5	8	9
Sodium	ppm	ASTM D5185m	4	7	9
Potassium	ppm	ASTM D5185m >20	120	158	444

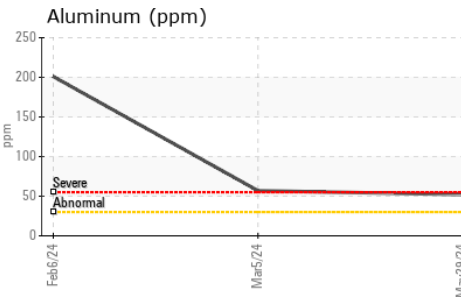
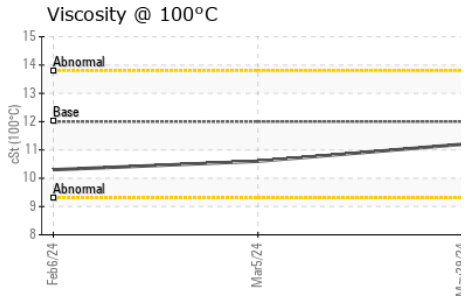
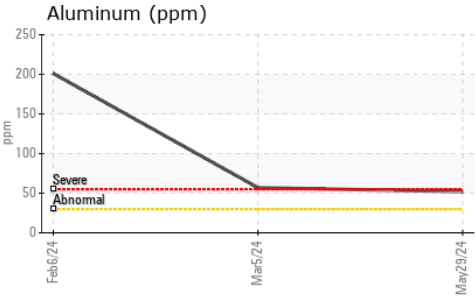
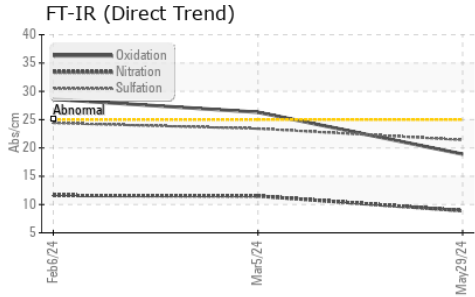
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.5	0.8	0.7
Nitration	Abs/cm	*ASTM D7624 >20	8.9	11.5	11.6
Sulfation	Abs/.1mm	*ASTM D7415 >30	21.4	23.4	24.4

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	18.9	26.3	28.6
Base Number (BN)	mg KOH/g	ASTM D2896	7.0	5.9	5.2

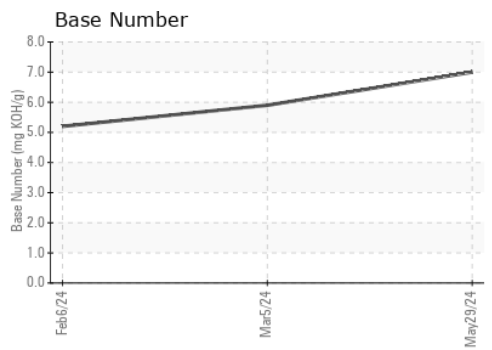
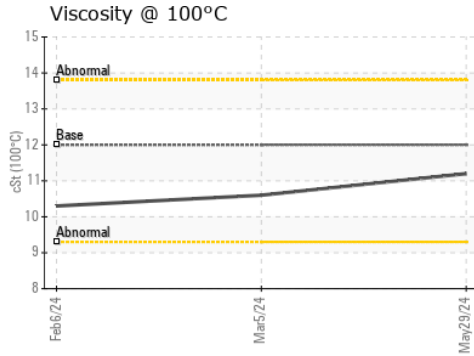
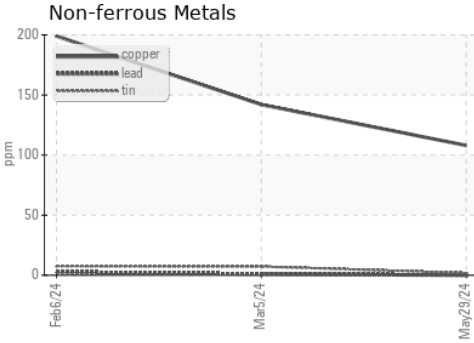
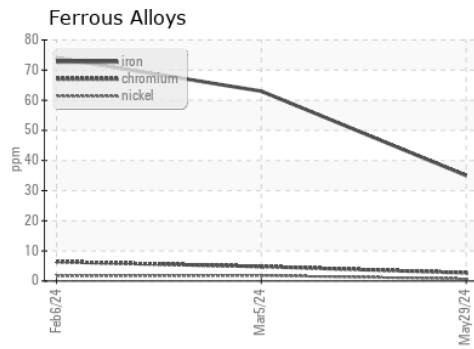
OIL ANALYSIS REPORT



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	10.6

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0120825 **Received** : 03 Jun 2024
Lab Number : 06198639 **Tested** : 04 Jun 2024
Unique Number : 11060762 **Diagnosed** : 04 Jun 2024 - Wes Davis
Test Package : FLEET

Transervice - Shop 1369 - Berkeley-Waxahachie
 710 Ovilla Road
 Waxahachie, TX
 US 75167
 Contact: Robert Beal
 rbeal@transervice.com
 T: (972)923-9928
 F: (972)923-9919

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)