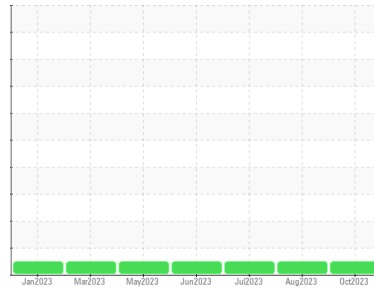


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
(54076Z) Walgreens - Tractor
 Machine Id
[Walgreens - Tractor] 136A63421
 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		PCA0103813	PCA0103803	PCA0100238
Sample Date	Client Info		16 Oct 2023	28 Aug 2023	13 Jul 2023
Machine Age	mls	Client Info	181720	152482	120044
Oil Age	mls	Client Info	61676	32438	57983
Oil Changed	Client Info		Changed	Not Changd	Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >80	31	22	44
Chromium	ppm	ASTM D5185m >5	2	2	4
Nickel	ppm	ASTM D5185m >2	0	<1	<1
Titanium	ppm	ASTM D5185m	0	0	<1
Silver	ppm	ASTM D5185m >3	0	<1	0
Aluminum	ppm	ASTM D5185m >30	24	22	54
Lead	ppm	ASTM D5185m >30	0	0	<1
Copper	ppm	ASTM D5185m >150	34	56	66
Tin	ppm	ASTM D5185m >5	<1	<1	1
Vanadium	ppm	ASTM D5185m	0	0	<1
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	0	2	3
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 50	62	74	62
Manganese	ppm	ASTM D5185m 0	<1	<1	2
Magnesium	ppm	ASTM D5185m 950	1000	1090	979
Calcium	ppm	ASTM D5185m 1050	1132	1224	1452
Phosphorus	ppm	ASTM D5185m 995	967	1073	960
Zinc	ppm	ASTM D5185m 1180	1263	1351	1252
Sulfur	ppm	ASTM D5185m 2600	2063	2936	2487

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	8	7	7
Sodium	ppm	ASTM D5185m	3	3	4
Potassium	ppm	ASTM D5185m >20	58	61	105

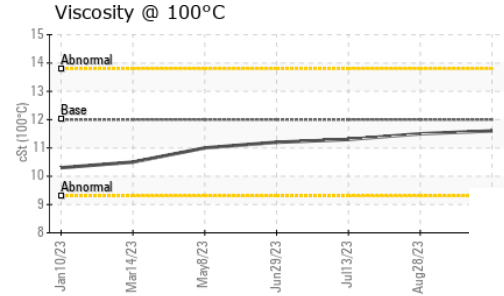
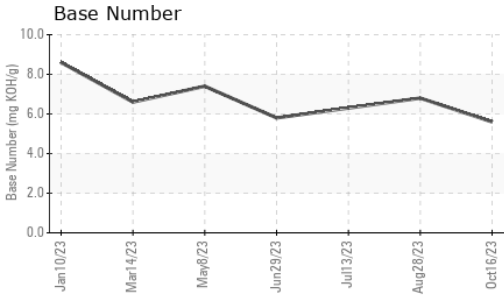
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	1	0.6	0.9
Nitration	Abs/cm	*ASTM D7624 >20	10.2	8.5	11.4
Sulfation	Abs/.1mm	*ASTM D7415 >30	22.1	20.3	23.8

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	19.6	16.5	22.0
Base Number (BN)	mg KOH/g	ASTM D2896	5.6	6.8	6.3

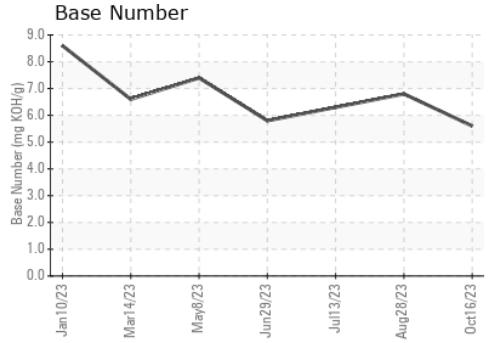
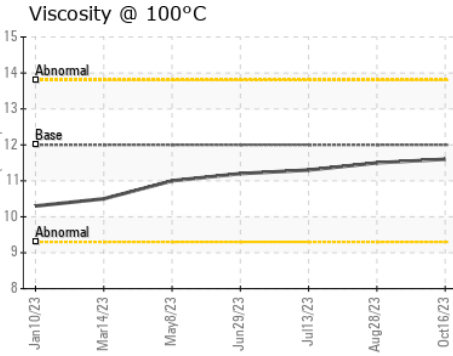
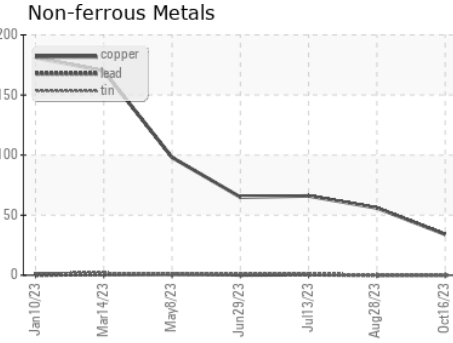
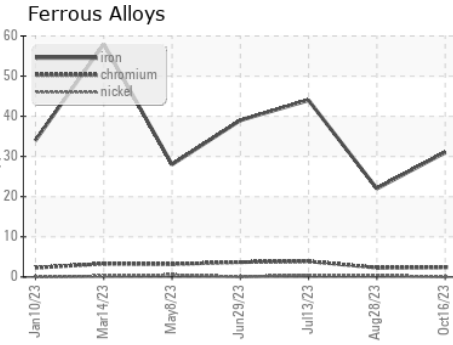
OIL ANALYSIS REPORT



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	11.6	11.5	11.3

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0103813 **Received** : 23 Oct 2023
Lab Number : **05987160** **Diagnosed** : 24 Oct 2023
Unique Number : 10709822 **Diagnostician** : Wes Davis
Test Package : FLEET

Transervice - Shop 1364 - Berkeley-Mt. Vernon
 5100 Lake Terrace NE
 Mt. Vernon, IL
 US 62864
 Contact: Erien White
 ewhite@transervice.com
 T: (618)244-8726
 F: (618)244-8791

Certificate L2367
 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)