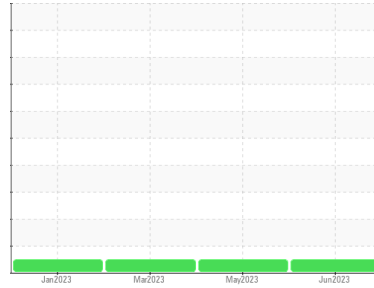


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL


Area
(54076Z) Walgreens
Machine Id
[Walgreens] 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	history 1	history 2
Sample Number	Client Info		PCA0100259	PCA0094661	PCA0089789
Sample Date	Client Info		29 Jun 2023	08 May 2023	14 Mar 2023
Machine Age	mls	Client Info	114490	90353	62061
Oil Age	mls	Client Info	52429	28292	62061
Oil Changed	Client Info		Not Chngd	Not Chngd	Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history 1	history 2
Fuel	WC Method	>5	<1.0	<1.0	<1.0
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m >80	39	28	58
Chromium	ppm	ASTM D5185m >5	4	3	3
Nickel	ppm	ASTM D5185m >2	<1	<1	<1
Titanium	ppm	ASTM D5185m	<1	<1	<1
Silver	ppm	ASTM D5185m >3	0	<1	2
Aluminum	ppm	ASTM D5185m >30	45	45	85
Lead	ppm	ASTM D5185m >30	<1	1	<1
Copper	ppm	ASTM D5185m >150	65	98	170
Tin	ppm	ASTM D5185m >5	1	1	2
Vanadium	ppm	ASTM D5185m	<1	<1	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m 2	3	6	20
Barium	ppm	ASTM D5185m 0	<1	0	0
Molybdenum	ppm	ASTM D5185m 50	60	60	47
Manganese	ppm	ASTM D5185m 0	2	2	5
Magnesium	ppm	ASTM D5185m 950	930	973	612
Calcium	ppm	ASTM D5185m 1050	1396	1417	1690
Phosphorus	ppm	ASTM D5185m 995	922	992	718
Zinc	ppm	ASTM D5185m 1180	1194	1301	881
Sulfur	ppm	ASTM D5185m 2600	2357	2779	1930

CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m >20	7	6	12
Sodium	ppm	ASTM D5185m	5	3	6
Potassium	ppm	ASTM D5185m >20	96	73	196

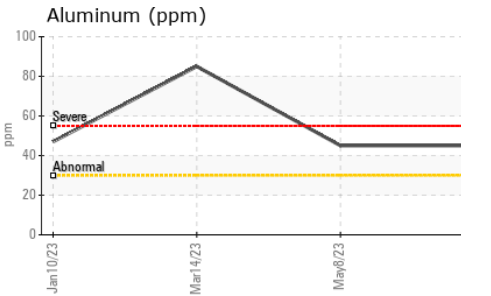
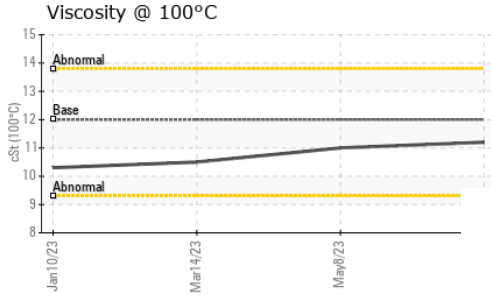
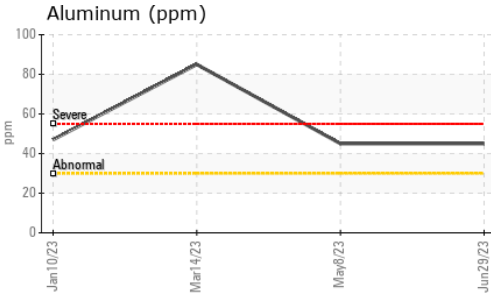
INFRA-RED

	method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844 >3	0.8	0.5	0.7
Nitration	Abs/cm	*ASTM D7624 >20	10.4	8.7	11.5
Sulfation	Abs/.1mm	*ASTM D7415 >30	23.1	21.0	23.9

FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414 >25	21.8	18.0	25.4
Base Number (BN)	mg KOH/g	ASTM D2896	5.8	7.4	6.6

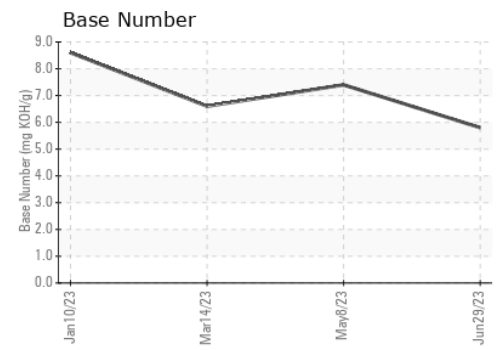
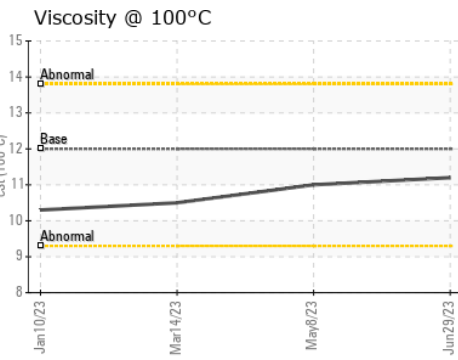
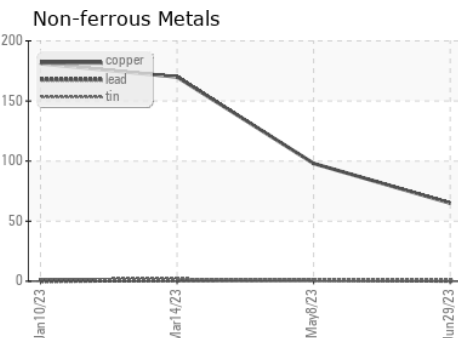
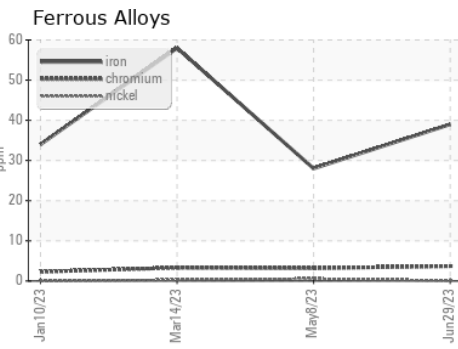
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history 1	history 2
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	history 1	history 2
Visc @ 100°C	cSt	ASTM D445	12.00	11.2	11.0

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0100259
Lab Number : 05891032
Unique Number : 10546842
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

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)