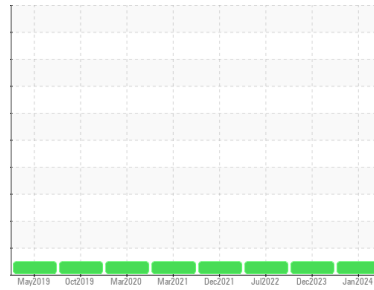


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**Chevrolet 4514**

Component  
**Gasoline Engine**

Fluid  
**PETRO CANADA DURON SHP 10W30 (6 QTS)**

## DIAGNOSIS

### Recommendation

Oil and filter change at the time of sampling has been noted. 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. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0112494</b>	PCA0091738	PCA0045592
Sample Date	Client Info		<b>05 Jan 2024</b>	07 Dec 2023	23 Jul 2022
Machine Age	mls	Client Info	<b>172757</b>	165798	142957
Oil Age	mls	Client Info	<b>6959</b>	22841	158115
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >150	<b>12</b>	13	12
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m >5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >40	<b>3</b>	2	3
Lead	ppm	ASTM D5185m >50	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m >155	<b>10</b>	10	10
Tin	ppm	ASTM D5185m >10	<b>0</b>	0	0
Antimony	ppm	ASTM D5185m	<b>---</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>3</b>	4	1
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m 50	<b>59</b>	57	58
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m 950	<b>932</b>	861	842
Calcium	ppm	ASTM D5185m 1050	<b>1207</b>	986	1005
Phosphorus	ppm	ASTM D5185m 995	<b>976</b>	751	876
Zinc	ppm	ASTM D5185m 1180	<b>1270</b>	1118	1147
Sulfur	ppm	ASTM D5185m 2600	<b>3218</b>	2419	2821

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >30	<b>8</b>	8	9
Sodium	ppm	ASTM D5185m >400	<b>4</b>	<1	15
Potassium	ppm	ASTM D5185m >20	<b>3</b>	2	10

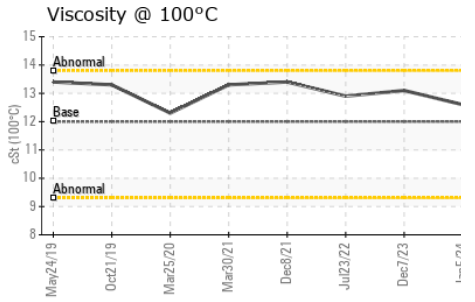
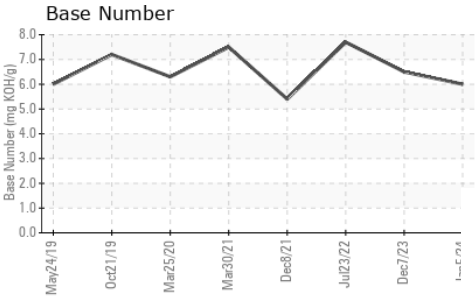
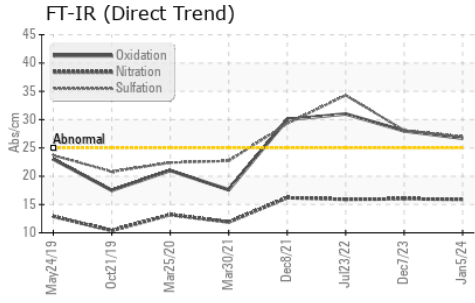
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0.1</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624 >20	<b>15.9</b>	16.0	15.9
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>27.0</b>	28.1	34.3

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>26.7</b>	28.0	31.0
Base Number (BN)	mg KOH/g	ASTM D2896	<b>6.0</b>	6.5	7.7

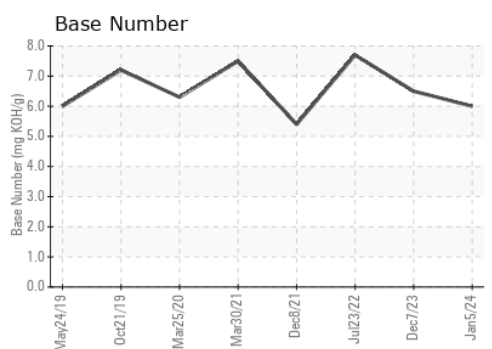
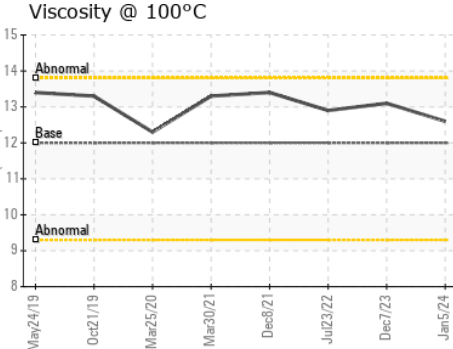
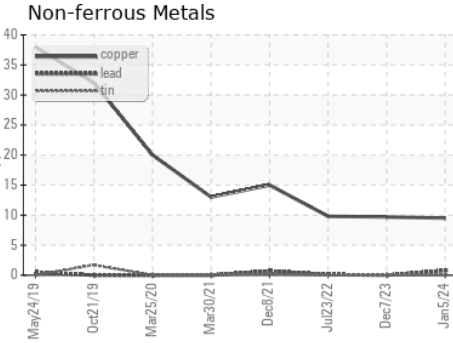
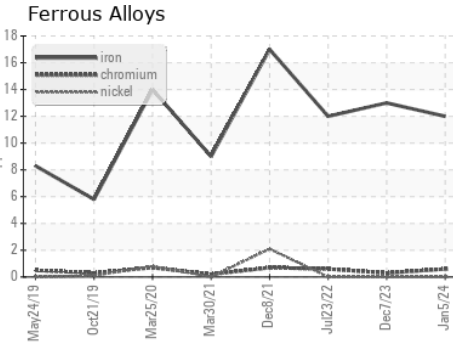
# OIL ANALYSIS REPORT



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	12.6	13.1	12.9

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0112494      **Received** : 20 Jun 2024  
**Lab Number** : 06215281      **Tested** : 21 Jun 2024  
**Unique Number** : 11088145      **Diagnosed** : 21 Jun 2024 - Sean Felton  
**Test Package** : FLEET

**ICSB370 - Alton**  
 4525 North Alby Road  
 Godfrey, IL  
 US 62035  
 Contact: Chad Ingold  
 c.ingold@illinois-central.com  
 T: (618)466-5400  
 F:

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)