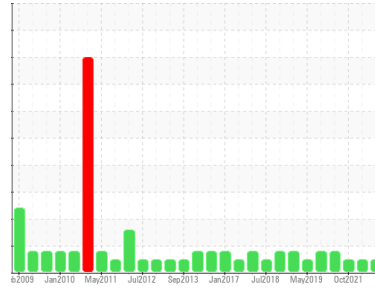


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**N.E.R./Off-Road**  
 Machine Id  
**TG12**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (--- 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. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2	
Sample Number	Client Info	<b>PCA0109695</b>	PCA0066808	PCA0059609	
Sample Date	Client Info	<b>19 Mar 2024</b>	22 Mar 2022	27 Oct 2021	
Machine Age	hrs	Client Info	<b>10494</b>	10494	10494
Oil Age	hrs	Client Info	<b>10494</b>	10494	10494
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A	
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL	

## CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<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 >100	<b>27</b>	71	66
Chromium	ppm ASTM D5185m >20	<b>&lt;1</b>	2	2
Nickel	ppm ASTM D5185m >4	<b>0</b>	<1	<1
Titanium	ppm ASTM D5185m	<b>0</b>	<1	<1
Silver	ppm ASTM D5185m >3	<b>0</b>	<1	0
Aluminum	ppm ASTM D5185m >20	<b>2</b>	1	2
Lead	ppm ASTM D5185m >40	<b>3</b>	2	3
Copper	ppm ASTM D5185m >330	<b>5</b>	3	4
Tin	ppm ASTM D5185m >15	<b>2</b>	1	1
Antimony	ppm ASTM D5185m	<b>---</b>	---	0
Vanadium	ppm ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 0	<b>8</b>	10	9
Barium	ppm ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m 60	<b>61</b>	59	61
Manganese	ppm ASTM D5185m 0	<b>&lt;1</b>	1	1
Magnesium	ppm ASTM D5185m 1010	<b>1005</b>	957	898
Calcium	ppm ASTM D5185m 1070	<b>1111</b>	1117	1032
Phosphorus	ppm ASTM D5185m 1150	<b>1055</b>	1020	928
Zinc	ppm ASTM D5185m 1270	<b>1286</b>	1088	1186
Sulfur	ppm ASTM D5185m 2060	<b>3503</b>	2642	2474

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	<b>5</b>	3	4
Sodium	ppm ASTM D5185m	<b>6</b>	2	2
Potassium	ppm ASTM D5185m >20	<b>2</b>	0	0

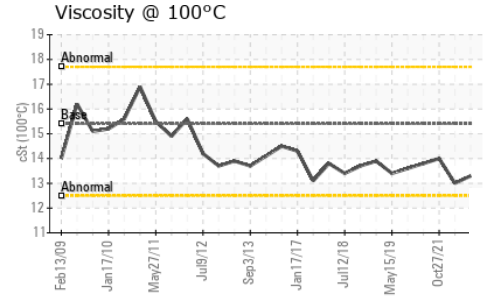
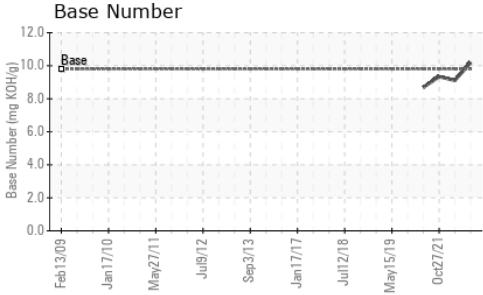
## INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	<b>0.4</b>	1.8	2
Nitration	Abs/cm *ASTM D7624 >20	<b>8.3</b>	8.9	8.6
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>20.8</b>	22.3	21.8

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>16.8</b>	15.5	14.7
Base Number (BN)	mg KOH/g ASTM D2896 9.8	<b>10.19</b>	9.11	9.34

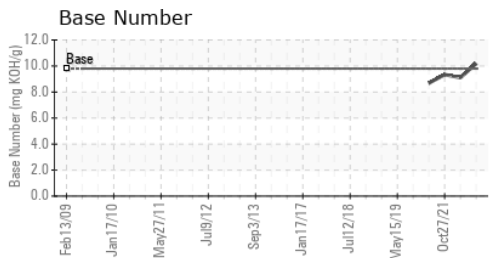
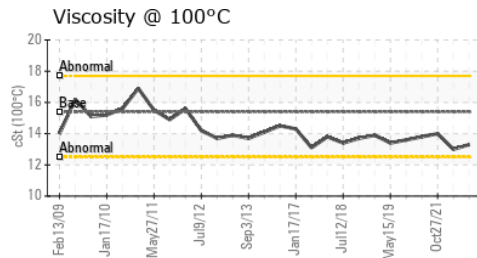
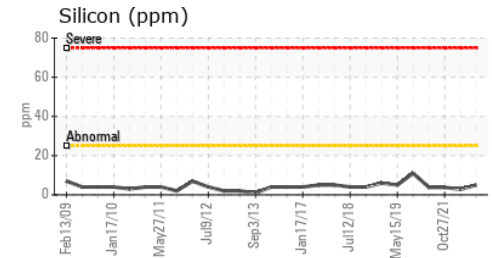
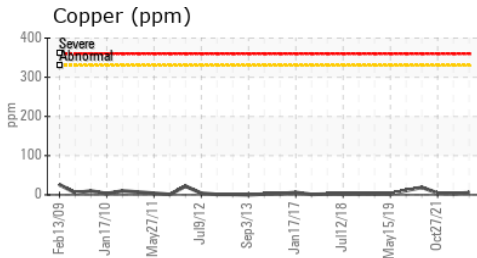
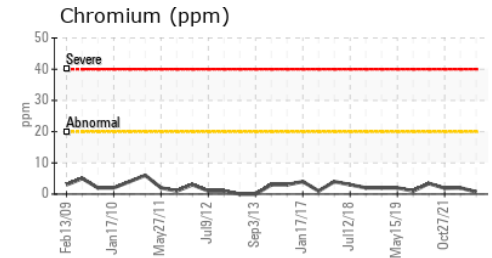
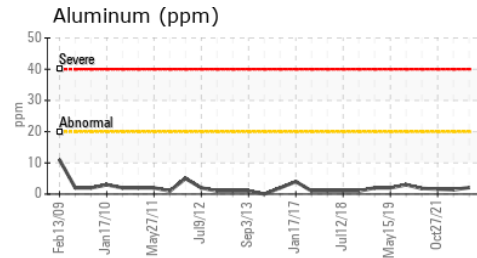
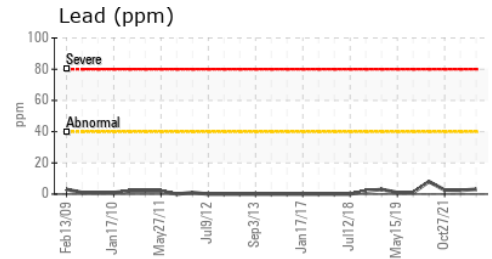
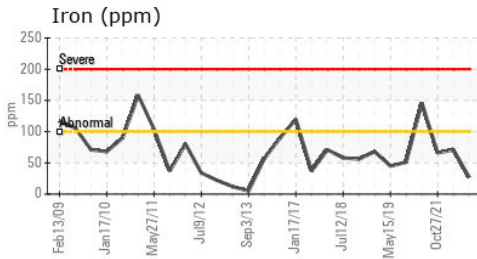
# OIL ANALYSIS REPORT



PARAMETER	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	15.4	<b>13.3</b>	13.0	14.0

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0109695 **Received** : 22 Mar 2024  
**Lab Number** : **06126642** **Tested** : 26 Mar 2024  
**Unique Number** : 10940793 **Diagnosed** : 26 Mar 2024 - Wes Davis  
**Test Package** : MOB 2

**G LOPES CONSTRUCTION**  
 565 WINTHROP ST  
 TAUNTON, MA  
 US 02780  
 Contact: BUTCH MCGRATH  
 bmcgrath@glopes.com

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)

T:  
F: