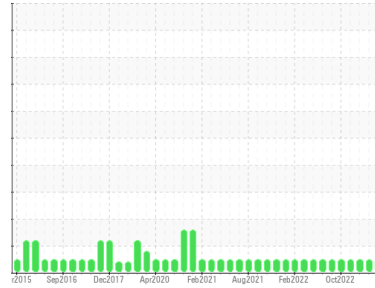


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**2518**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON SHP 15W40 (9 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>PCA0101730</b>	PCA0095838	PCA0077344
Sample Date	Client Info	<b>05 Sep 2023</b>	07 Aug 2023	19 Apr 2023
Machine Age	hrs	<b>8232</b>	7911	7391
Oil Age	hrs	<b>649</b>	649	649
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 >3.0	<b>&lt;1.0</b>	<1.0	<1.0
Glycol	WC Method	<b>NEG</b>	NEG	NEG

### WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >165	<b>19</b>	43	23
Chromium	ppm ASTM D5185m >5	<b>&lt;1</b>	1	<1
Nickel	ppm ASTM D5185m >4	<b>0</b>	0	0
Titanium	ppm ASTM D5185m >2	<b>0</b>	0	0
Silver	ppm ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >20	<b>0</b>	1	1
Lead	ppm ASTM D5185m >150	<b>1</b>	3	0
Copper	ppm ASTM D5185m >90	<b>2</b>	<1	0
Tin	ppm ASTM D5185m >5	<b>&lt;1</b>	<1	0
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 0	<b>18</b>	14	19
Barium	ppm ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m 60	<b>77</b>	71	58
Manganese	ppm ASTM D5185m 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm ASTM D5185m 1010	<b>925</b>	945	741
Calcium	ppm ASTM D5185m 1070	<b>1397</b>	1256	1078
Phosphorus	ppm ASTM D5185m 1150	<b>1027</b>	1082	854
Zinc	ppm ASTM D5185m 1270	<b>1257</b>	1330	1083
Sulfur	ppm ASTM D5185m 2060	<b>3678</b>	3676	2828

### CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >35	<b>14</b>	16	16
Sodium	ppm ASTM D5185m	<b>7</b>	11	4
Potassium	ppm ASTM D5185m >20	<b>4</b>	4	<1

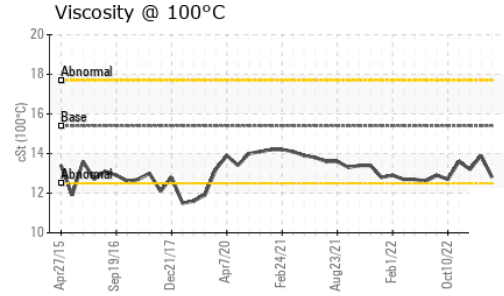
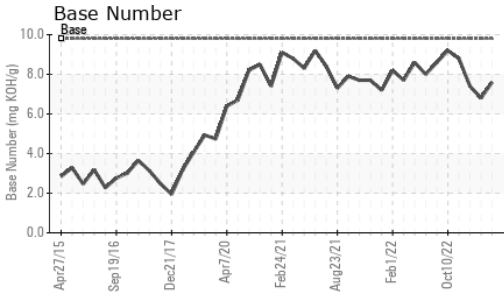
### INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >7.5	<b>0.5</b>	1.6	0.9
Nitration	Abs/cm *ASTM D7624 >20	<b>7.8</b>	12.8	10.3
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>19.0</b>	25.2	22.3

### FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>13.9</b>	20.5	18.6
Base Number (BN)	mg KOH/g ASTM D2896 9.8	<b>7.6</b>	6.8	7.4

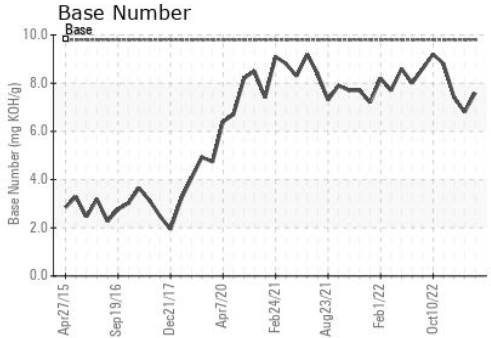
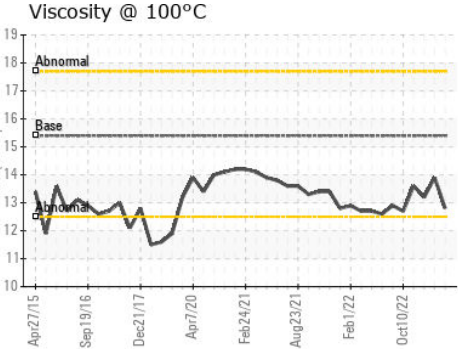
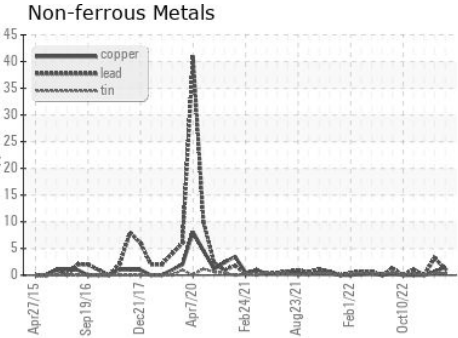
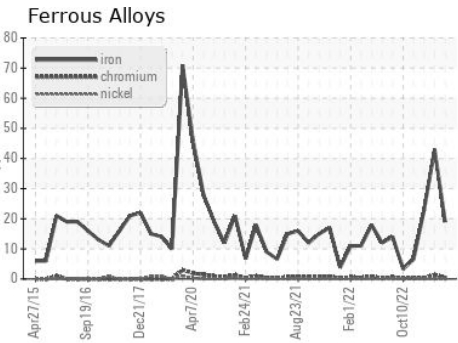
# OIL ANALYSIS REPORT



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	15.4	<b>12.8</b>	13.9	13.2

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0101730  
**Lab Number** : **05946440**  
**Unique Number** : 10642399  
**Test Package** : FLEET

**GFL Environmental - 002 - Vance-Granville**  
 241 Vanco Mill Rd  
 Henderson, NC  
 US 27537  
 Contact: Cameron King  
 cameron.king@gflenv.com  
 T: (252)438-5333  
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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)