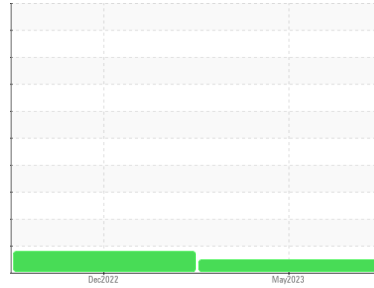




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**(405269)**

Machine Id  
**93021**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON SHP 15W40 (10 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>SBP0003932</b>	SBP0001729	---
Sample Date	Client Info		<b>16 May 2023</b>	27 Dec 2022	---
Machine Age	mls	Client Info	<b>242907</b>	242719	---
Oil Age	mls	Client Info	<b>242719</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	N/A	---
Sample Status			<b>NORMAL</b>	ABNORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<b>&lt;1.0</b>	<1.0	---
Water	WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol	WC Method		<b>NEG</b>	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>200	<b>11</b>	59	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	---
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	0	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>30	<b>0</b>	4	---
Lead	ppm	ASTM D5185m	>30	<b>5</b>	▲ 57	---
Copper	ppm	ASTM D5185m	>30	<b>&lt;1</b>	5	---
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	<b>6</b>	111	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	60	<b>60</b>	74	---
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m	1010	<b>963</b>	374	---
Calcium	ppm	ASTM D5185m	1070	<b>1193</b>	2243	---
Phosphorus	ppm	ASTM D5185m	1150	<b>1079</b>	1078	---
Zinc	ppm	ASTM D5185m	1270	<b>1314</b>	1345	---
Sulfur	ppm	ASTM D5185m	2060	<b>4003</b>	4022	---

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>30	<b>5</b>	8	---
Sodium	ppm	ASTM D5185m		<b>1</b>	3	---
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	4	---

## INFRA-RED

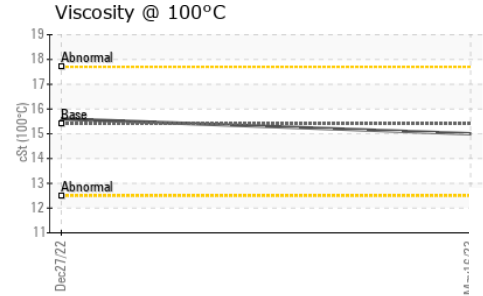
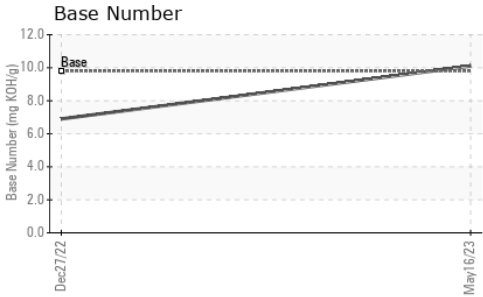
	method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	<b>0.2</b>	1.2	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.7</b>	12.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.1</b>	26.3	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.7</b>	24.1	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>10.1</b>	6.9	---



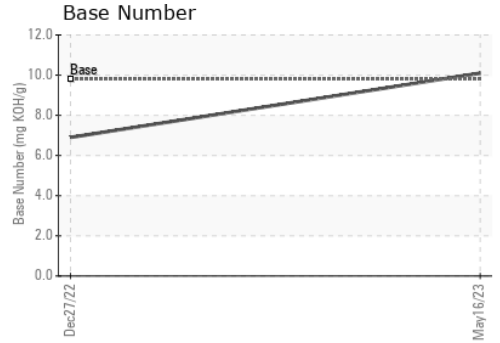
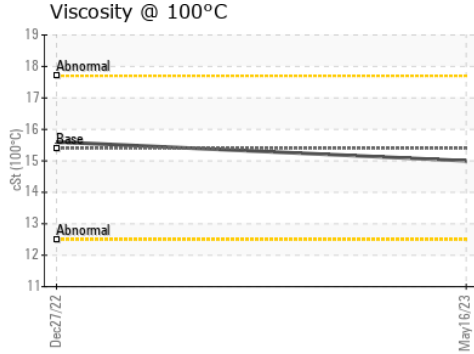
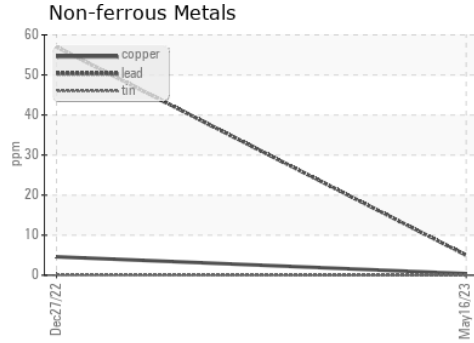
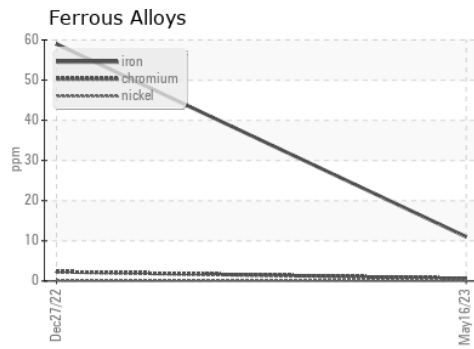
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.4	<b>15.0</b>	15.6	---

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : SBP0003932 **Received** : 23 May 2023  
**Lab Number** : 05854855 **Tested** : 24 May 2023  
**Unique Number** : 10484210 **Diagnosed** : 24 May 2023 - Wes Davis  
**Test Package** : FLEET

**Sapp Bros. Fleet - Shenandoah Location**

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)

US  
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