



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

**BARTO**

Machine Id

**7075 [BARTO]**

Component

**Diesel Engine**

Fluid

**PETRO CANADA DURON SHP 15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>SBP0007248</b>	SBP0005678	---
Sample Date		Client Info		<b>16 May 2024</b>	10 Oct 2023	---
Machine Age	mls	Client Info		<b>298750</b>	261203	---
Oil Age	mls	Client Info		<b>37547</b>	37932	---
Filter Age	mls	Client Info		<b>37547</b>	37932	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>80	<b>17</b>	17	---
Chromium	ppm	ASTM D5185m	>5	<b>1</b>	1	---
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>30	<b>6</b>	5	---
Lead	ppm	ASTM D5185m	>30	<b>0</b>	<1	---
Copper	ppm	ASTM D5185m	>150	<b>9</b>	11	---
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

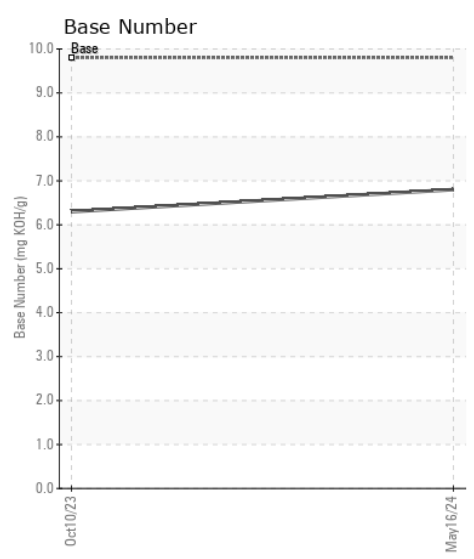
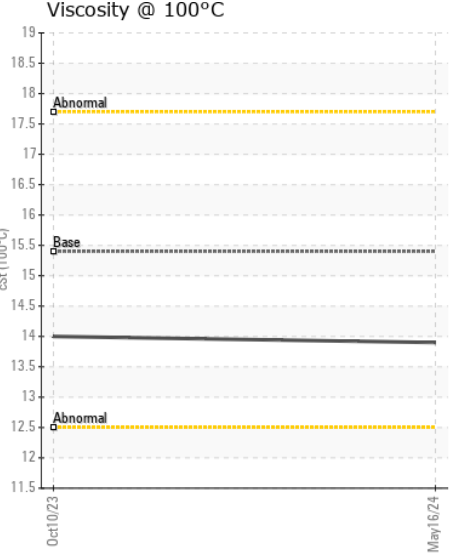
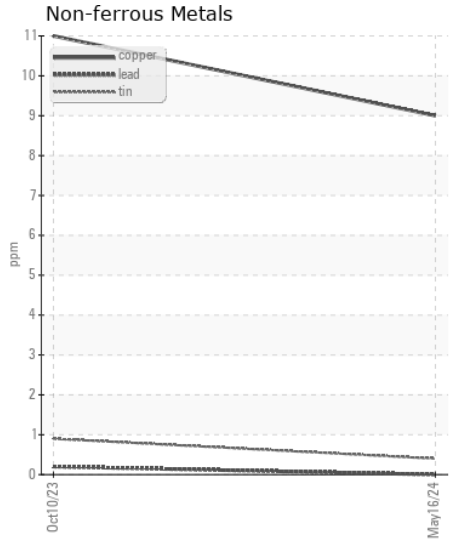
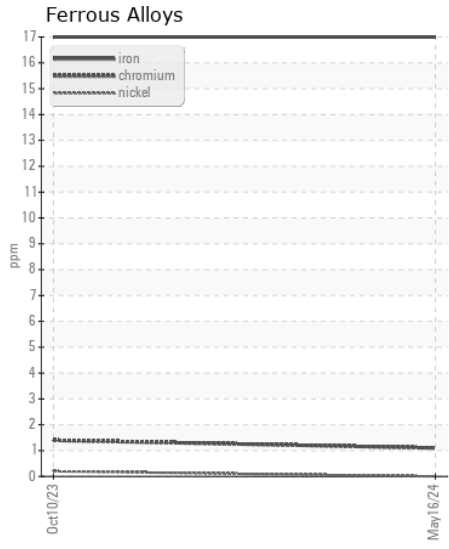
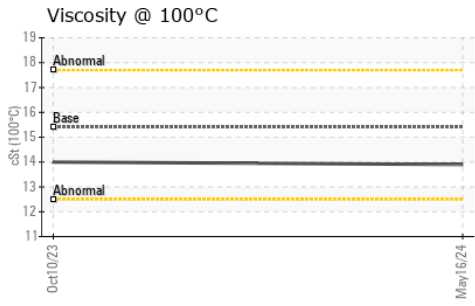
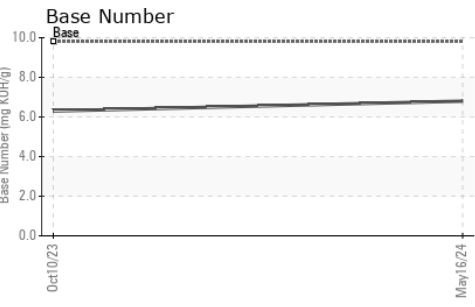
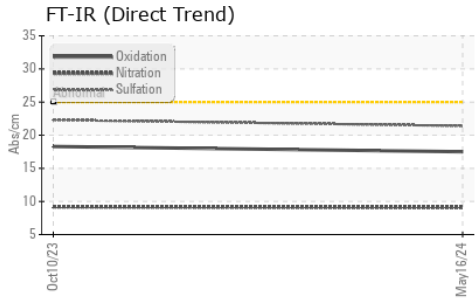
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>6</b>	8	---
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	7	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.9</b>	0.9	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.1</b>	9.2	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.4</b>	22.3	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	---

## 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.

Sodium	ppm	ASTM D5185m		<b>1</b>	2	---
Boron	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	60	<b>63</b>	60	---
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m	1010	<b>1009</b>	966	---
Calcium	ppm	ASTM D5185m	1070	<b>1138</b>	1213	---
Phosphorus	ppm	ASTM D5185m	1150	<b>1100</b>	1013	---
Zinc	ppm	ASTM D5185m	1270	<b>1323</b>	1310	---
Sulfur	ppm	ASTM D5185m	2060	<b>3047</b>	2664	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.5</b>	18.3	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>6.8</b>	6.3	---
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.9</b>	14.0	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : SBP0007248  
**Lab Number** : 06191714  
**Unique Number** : 11048466  
**Test Package** : FLEET  
**Received** : 24 May 2024  
**Tested** : 29 May 2024  
**Diagnosed** : 29 May 2024 - Wes Davis

**SCHMIDT TRANSPORTATION - BARTO**  
 108 E Bay Road  
 Plattsmouth, NE  
 US 68048  
 Contact: Service Manager

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)

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