



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id

4164

Component

Diesel Engine

Fluid

PETRO CANADA DURON SHP 10W30 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0082253	---	---
Sample Date		Client Info		24 Dec 2023	---	---
Machine Age	kms	Client Info		38809	---	---
Oil Age	kms	Client Info		0	---	---
Filter Age	kms	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				NORMAL	---	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>80	61	---	---
Chromium	ppm	ASTM D5185(m)	>5	3	---	---
Nickel	ppm	ASTM D5185(m)	>2	1	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>3	<1	---	---
Aluminum	ppm	ASTM D5185(m)	>30	24	---	---
Lead	ppm	ASTM D5185(m)	>30	6	---	---
Copper	ppm	ASTM D5185(m)	>150	256	---	---
Tin	ppm	ASTM D5185(m)	>5	6	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	LIGHT	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

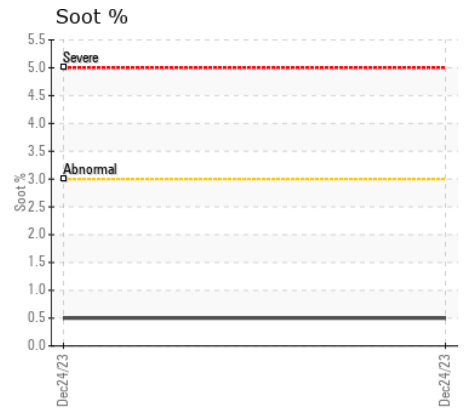
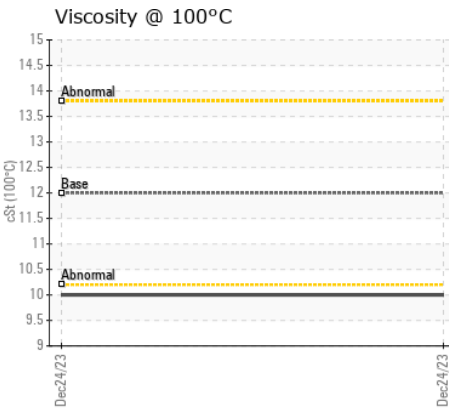
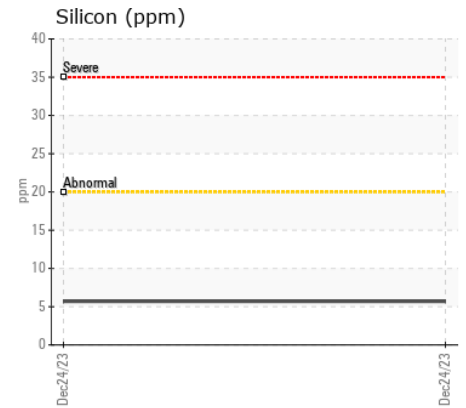
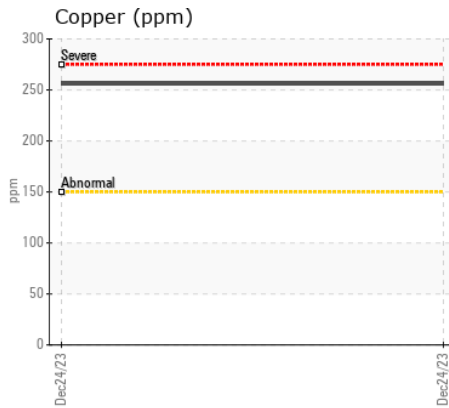
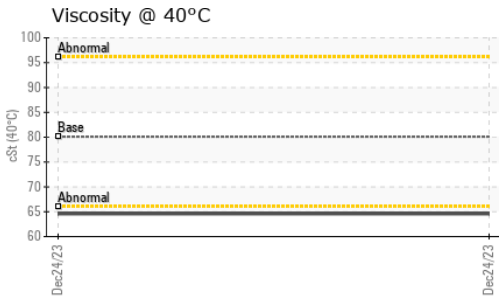
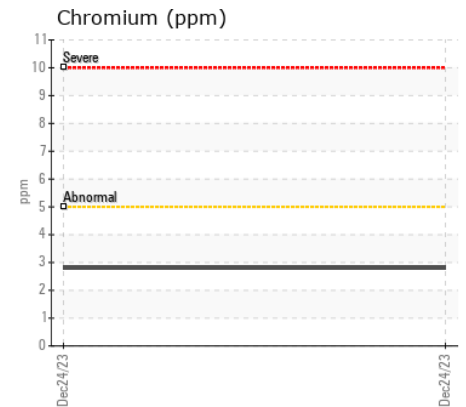
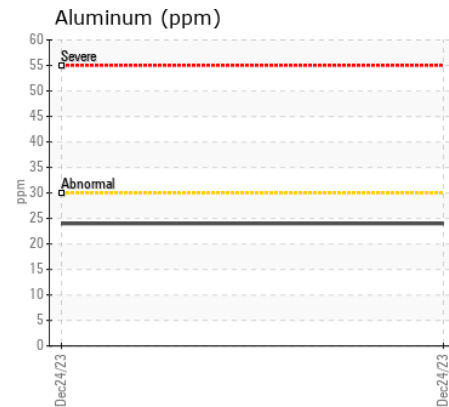
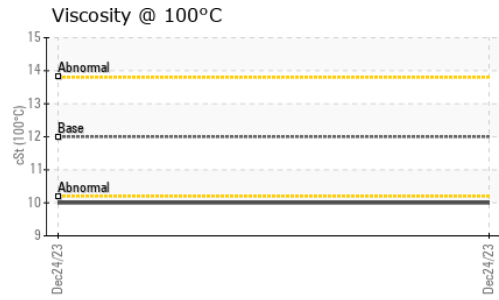
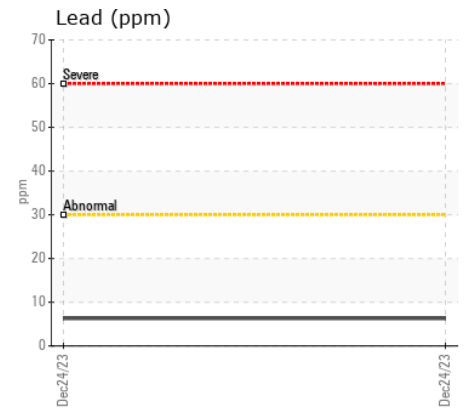
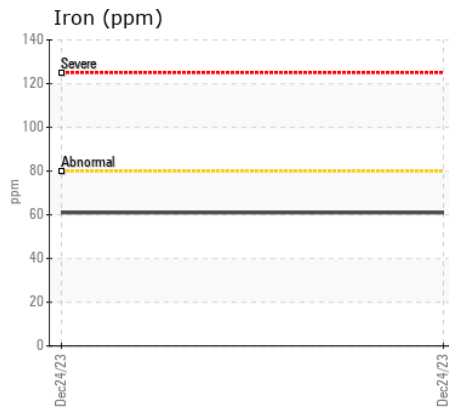
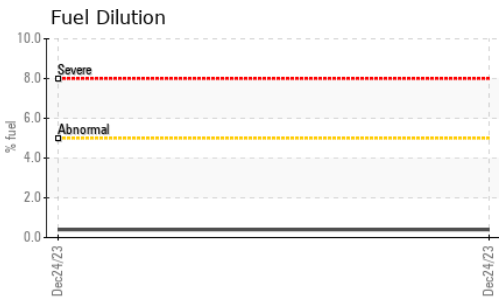
Fuel content negligible. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	6	---	---
Potassium	ppm	ASTM D5185(m)	>20	71	---	---
Fuel	%	ASTM D7593*	>5	0.4	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*	>3	0.5	---	---
Nitration	Abs/cm	ASTM D7624*	>20	10.2	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.8	---	---
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	---	---

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		5	---	---
Boron	ppm	ASTM D5185(m)	2	31	---	---
Barium	ppm	ASTM D5185(m)	0	<1	---	---
Molybdenum	ppm	ASTM D5185(m)	50	44	---	---
Manganese	ppm	ASTM D5185(m)	0	3	---	---
Magnesium	ppm	ASTM D5185(m)	950	557	---	---
Calcium	ppm	ASTM D5185(m)	1050	1723	---	---
Phosphorus	ppm	ASTM D5185(m)	995	747	---	---
Zinc	ppm	ASTM D5185(m)	1180	896	---	---
Sulfur	ppm	ASTM D5185(m)	2600	1739	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	24.5	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	64.6	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	10.0	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	144	139	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **RUSH TRUCK CENTRES OF CANADA**
Sample No. : PC0082253 **Received** : 12 Jan 2024 **77 BELLEVUE DR**
Lab Number : **02608454** **Diagnosed** : 15 Jan 2024 **BELLEVILLE, ON**
Unique Number : 5709540 **Diagnostician** : Kevin Marson **CA K8N 4Z5**
Test Package : MOB 1 (Additional Tests: FuelDilution, KV40, PercentFuel, VI, Visual) **Contact: Service Manager**
LBRETT@RUSHTRUCKCENTRES.CA

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Validity of results and interpretation are based on the sample and information as supplied.

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F: