



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
2227125

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 10W30 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0114796	PCA0101148	---
Sample Date		Client Info		21 Jan 2024	15 Oct 2023	---
Machine Age	mls	Client Info		57162	33328	---
Oil Age	mls	Client Info		27162	33328	---
Filter Age	mls	Client Info		27162	33328	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	61	44	---
Chromium	ppm	ASTM D5185m	>20	1	<1	---
Nickel	ppm	ASTM D5185m	>4	2	1	---
Titanium	ppm	ASTM D5185m		3	<1	---
Silver	ppm	ASTM D5185m	>3	2	5	---
Aluminum	ppm	ASTM D5185m	>20	27	28	---
Lead	ppm	ASTM D5185m	>40	1	1	---
Copper	ppm	ASTM D5185m	>330	64	21	---
Tin	ppm	ASTM D5185m	>15	6	6	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

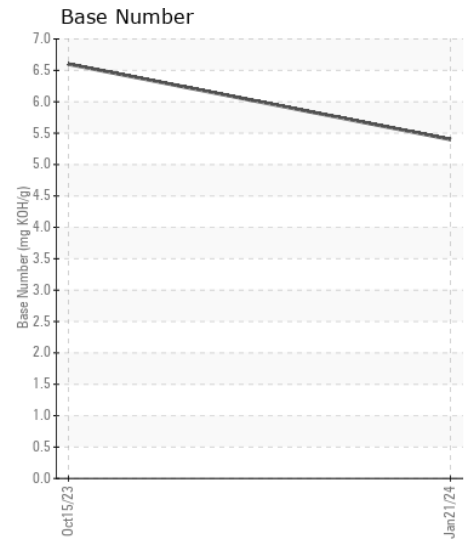
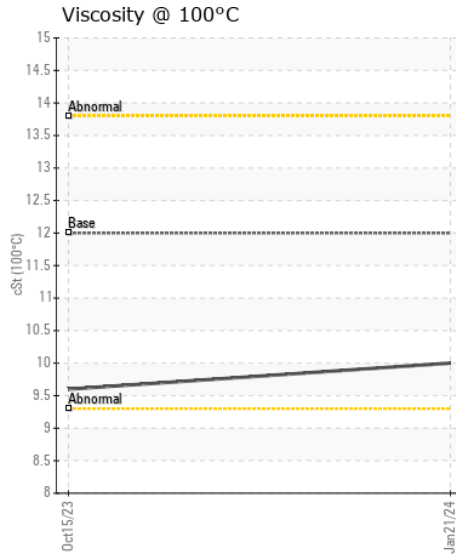
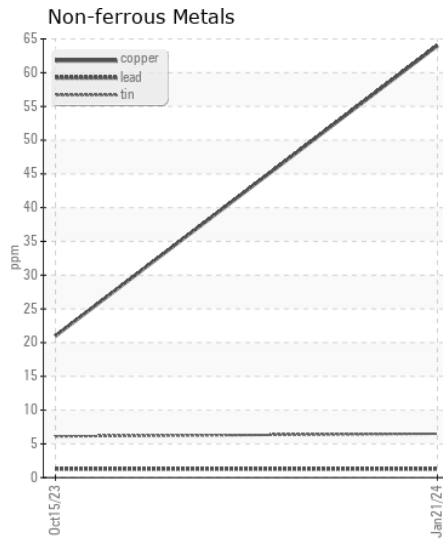
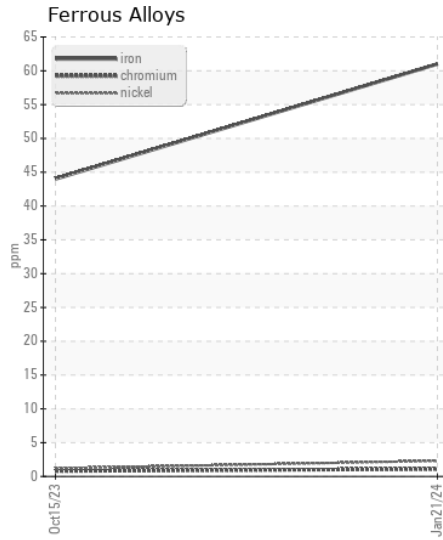
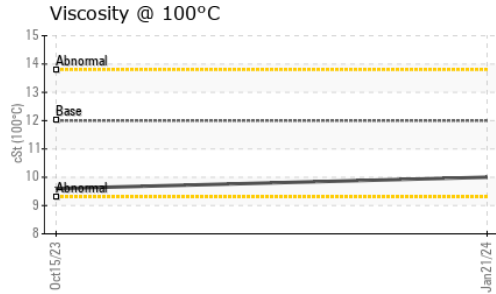
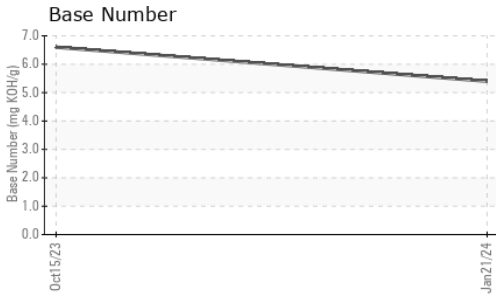
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	54	69	---
Potassium	ppm	ASTM D5185m	>20	72	80	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.5	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	11.5	10.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.8	25.0	---
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	---

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		4	6	---
Boron	ppm	ASTM D5185m	2	35	100	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	50	104	115	---
Manganese	ppm	ASTM D5185m	0	4	4	---
Magnesium	ppm	ASTM D5185m	950	740	686	---
Calcium	ppm	ASTM D5185m	1050	1336	1396	---
Phosphorus	ppm	ASTM D5185m	995	766	661	---
Zinc	ppm	ASTM D5185m	1180	909	803	---
Sulfur	ppm	ASTM D5185m	2600	2328	2080	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.4	24.5	---
Base Number (BN)	mg KOH/g	ASTM D2896		5.4	6.6	---
Visc @ 100°C	cSt	ASTM D445	12.00	10.0	9.6	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0114796 **Received** : 31 Jan 2024
Lab Number : 06075556 **Diagnosed** : 01 Feb 2024
Unique Number : 10857647 **Diagnostician** : Wes Davis
Test Package : FLEET

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)

PERDUE FARMS - SALISBURY
 7036 ZION CHURCH ROAD
 SALISBURY, MD
 US 21802

Contact: RICHARD O'NEAL
 richard.oneal@perdue.com

T: (410)543-3628

F: (410)341-2164