



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
2227120
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0114794	PCA0101142	---
Sample Date		Client Info		20 Jan 2024	26 Oct 2023	---
Machine Age	mls	Client Info		41118	20000	---
Oil Age	mls	Client Info		40000	20000	---
Filter Age	mls	Client Info		20000	20000	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Not Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	56	39	---
Chromium	ppm	ASTM D5185m	>20	1	<1	---
Nickel	ppm	ASTM D5185m	>4	8	2	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	7	17	---
Aluminum	ppm	ASTM D5185m	>20	28	29	---
Lead	ppm	ASTM D5185m	>40	<1	2	---
Copper	ppm	ASTM D5185m	>330	178	140	---
Tin	ppm	ASTM D5185m	>15	5	5	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

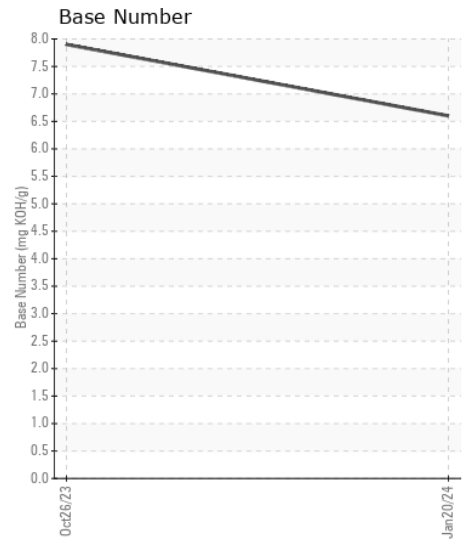
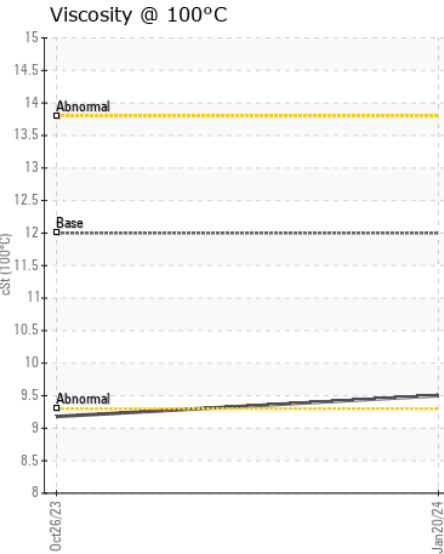
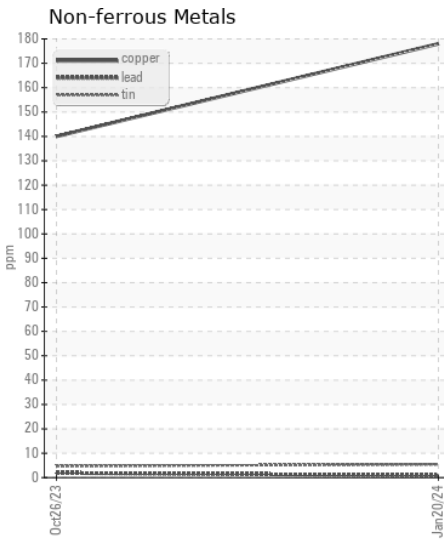
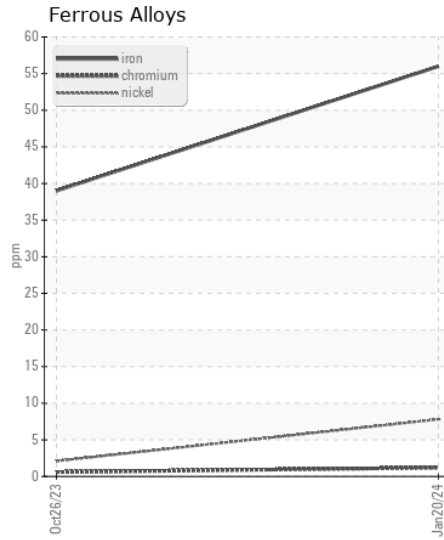
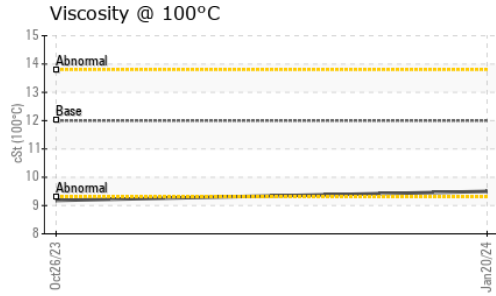
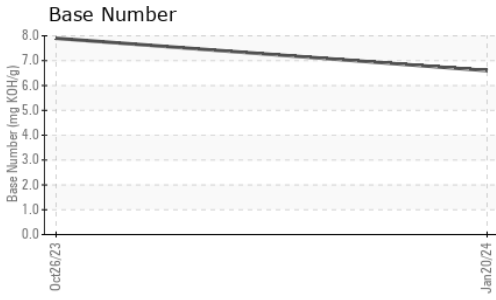
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	58	73	---
Potassium	ppm	ASTM D5185m	>20	73	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	0.4	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	10.9	9.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.5	24.5	---
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		5	4	---
Boron	ppm	ASTM D5185m	2	76	212	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	50	105	121	---
Manganese	ppm	ASTM D5185m	0	4	3	---
Magnesium	ppm	ASTM D5185m	950	702	637	---
Calcium	ppm	ASTM D5185m	1050	1348	1569	---
Phosphorus	ppm	ASTM D5185m	995	726	696	---
Zinc	ppm	ASTM D5185m	1180	843	805	---
Sulfur	ppm	ASTM D5185m	2600	2093	2017	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.1	22.4	---
Base Number (BN)	mg KOH/g	ASTM D2896		6.6	7.9	---
Visc @ 100°C	cSt	ASTM D445	12.00	9.5	9.18	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0114794 **Recieved** : 31 Jan 2024
Lab Number : 06075549 **Diagnosed** : 01 Feb 2024
Unique Number : 10857640 **Diagnostician** : Sean Felton
Test Package : FLEET

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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)