



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

{UNASSIGNED}

Machine Id

2220630 (S/N U130239A)

Component

Diesel Engine

Fluid

PETRO CANADA DURON ADVANCED 10W30 (9 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		PCA0116281	PCA0116255	PCA0108082
Sample Date		Client Info		05 Mar 2024	23 Feb 2024	03 Dec 2023
Machine Age	hrs	Client Info		4623	4623	3856
Oil Age	hrs	Client Info		4623	250	3470
Filter Age	hrs	Client Info		0	250	0
Oil Changed		Client Info		N/A	Changed	N/A
Filter Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	3	5	2
Chromium	ppm	ASTM D5185m	>20	0	1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	2	1
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	0	<1	1
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

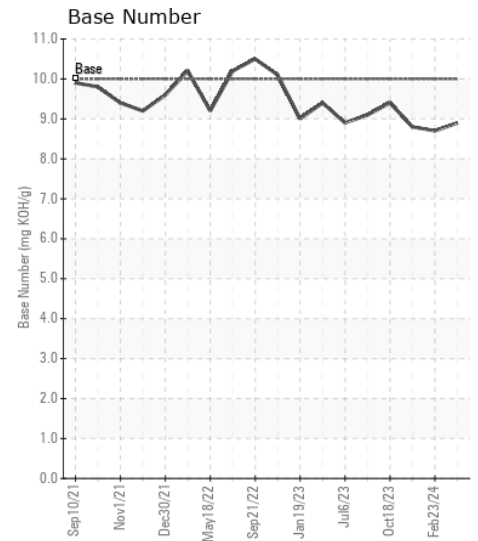
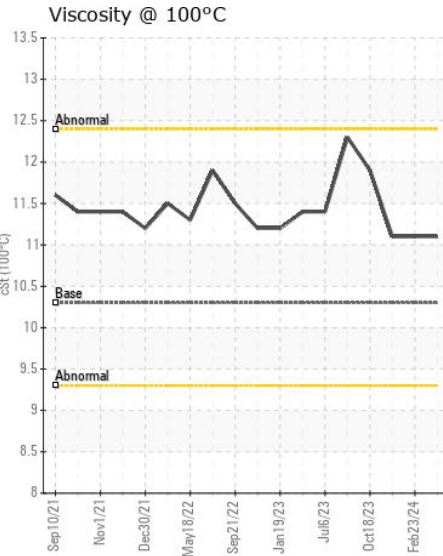
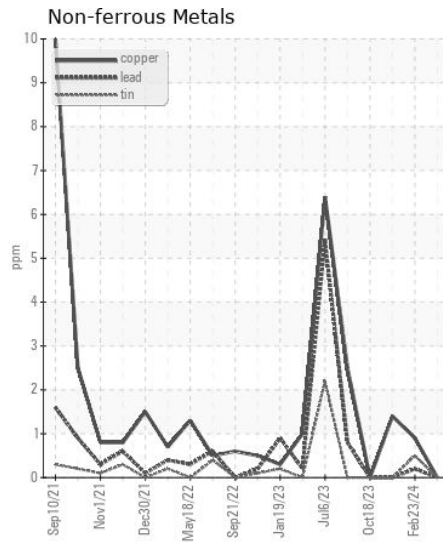
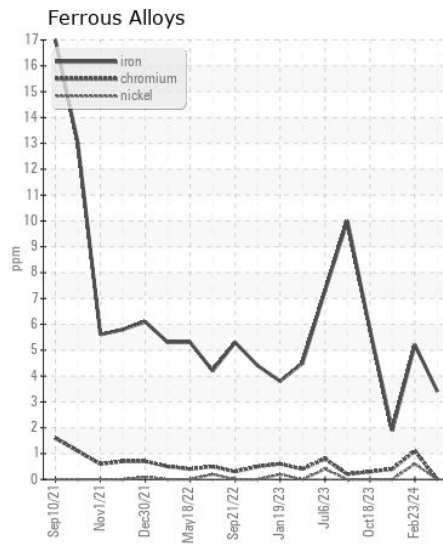
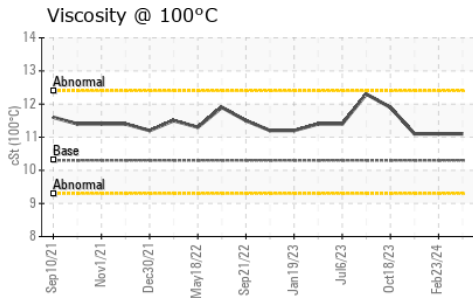
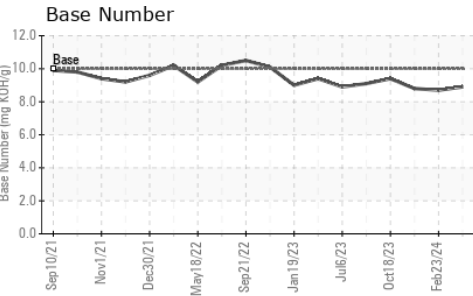
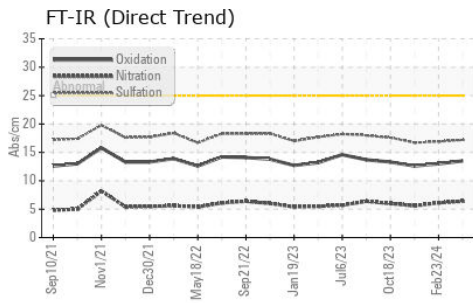
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	1	4	3
Potassium	ppm	ASTM D5185m	>20	0	3	0
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.4	6.1	5.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.2	16.9	16.7
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	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		<1	<1	3
Boron	ppm	ASTM D5185m	0	3	12	8
Barium	ppm	ASTM D5185m	0	0	1	0
Molybdenum	ppm	ASTM D5185m	60	63	58	58
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1034	805	915
Calcium	ppm	ASTM D5185m	1070	1204	996	1069
Phosphorus	ppm	ASTM D5185m	1150	1169	978	1151
Zinc	ppm	ASTM D5185m	1270	1319	1124	1289
Sulfur	ppm	ASTM D5185m	2060	4103	3345	3345
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.5	13.0	12.6
Base Number (BN)	mg KOH/g	ASTM D2896	10.0	8.9	8.7	8.8
Visc @ 100°C	cSt	ASTM D445	10.3	11.1	11.1	11.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0116281 **Received** : 12 Apr 2024
Lab Number : 06147034 **Tested** : 15 Apr 2024
Unique Number : 10977112 **Diagnosed** : 15 Apr 2024 - Wes Davis
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)