



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
2126950
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (--- QTS)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0124269	PCA0114797	PCA0092437
Sample Date		Client Info		20 May 2024	22 Jan 2024	22 Apr 2023
Machine Age	mls	Client Info		81554	61201	21881
Oil Age	mls	Client Info		40000	20000	21881
Filter Age	mls	Client Info		20000	20000	21881
Oil Changed		Client Info		Changed	Not Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	37	22	42
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	6	4	1
Titanium	ppm	ASTM D5185m		4	<1	0
Silver	ppm	ASTM D5185m	>3	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	9	8	23
Lead	ppm	ASTM D5185m	>40	3	2	0
Copper	ppm	ASTM D5185m	>330	128	309	229
Tin	ppm	ASTM D5185m	>15	2	1	4
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

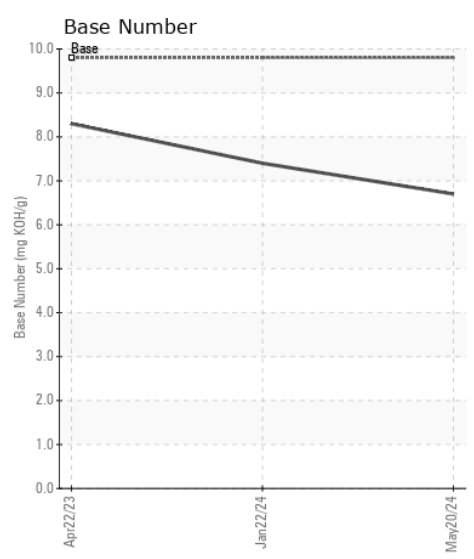
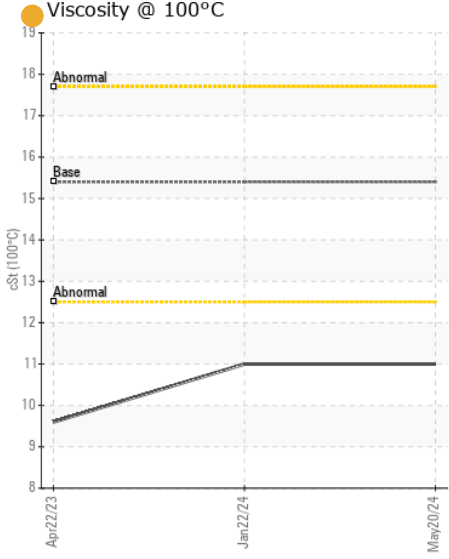
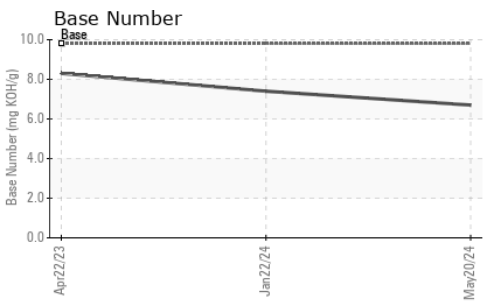
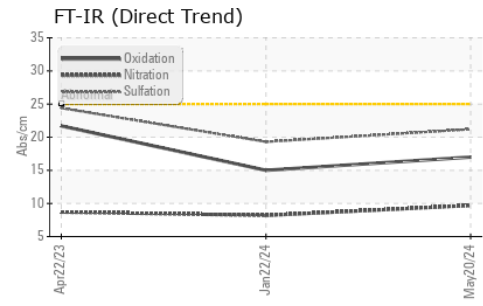
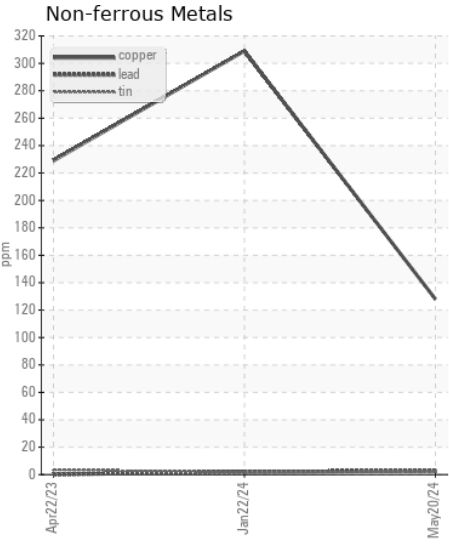
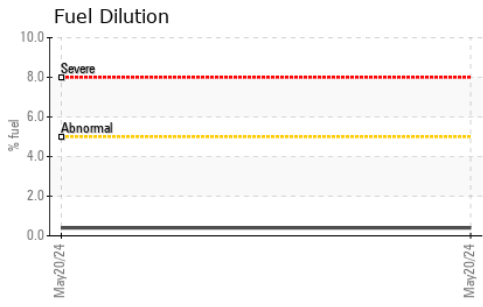
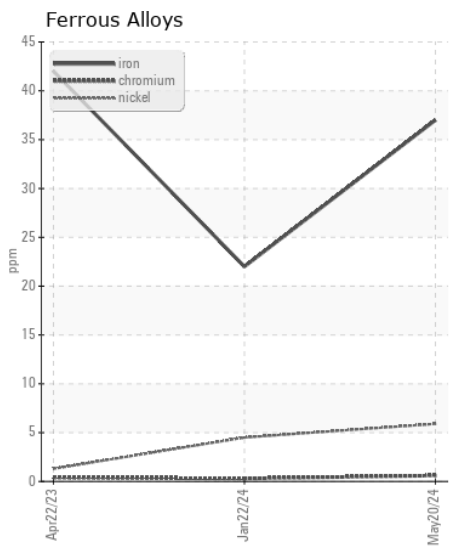
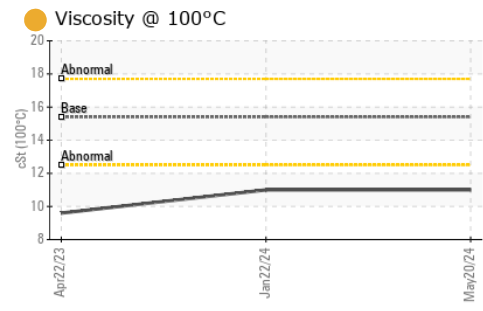
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	7	6	▲ 35
Potassium	ppm	ASTM D5185m	>20	22	21	67
Fuel	%	ASTM D3524	>5	0.4	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.5	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.7	8.2	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	19.3	24.4
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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		3	2	6
Boron	ppm	ASTM D5185m	0	4	4	311
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	60	118
Manganese	ppm	ASTM D5185m	0	1	1	4
Magnesium	ppm	ASTM D5185m	1010	908	913	668
Calcium	ppm	ASTM D5185m	1070	1165	1057	1512
Phosphorus	ppm	ASTM D5185m	1150	856	1080	676
Zinc	ppm	ASTM D5185m	1270	1222	1275	832
Sulfur	ppm	ASTM D5185m	2060	2916	2999	2542
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	15.0	21.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.7	7.4	8.3
Visc @ 100°C	cSt	ASTM D445	15.4	● 11.0	11.0	9.6



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0124269 **Received** : 23 May 2024
Lab Number : 06188953 **Tested** : 28 May 2024
Unique Number : 11045705 **Diagnosed** : 28 May 2024 - Don Baldrige
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

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Certificate L2367
 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)