



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
FLEET

Machine Id
26549

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 10W30 (40 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		PCA0119910	PCA0105989	PCA0093680
Sample Date		Client Info		11 Apr 2024	19 Oct 2023	27 Apr 2023
Machine Age	mls	Client Info		507795	485627	439191
Oil Age	mls	Client Info		17340	14854	43051
Filter Age	mls	Client Info		17340	14854	21654
Oil Changed		Client Info		Not Chngd	Not Chngd	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	8	5	26
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	3	1	<1
Lead	ppm	ASTM D5185m	>40	<1	<1	4
Copper	ppm	ASTM D5185m	>330	6	1	6
Tin	ppm	ASTM D5185m	>15	1	<1	1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

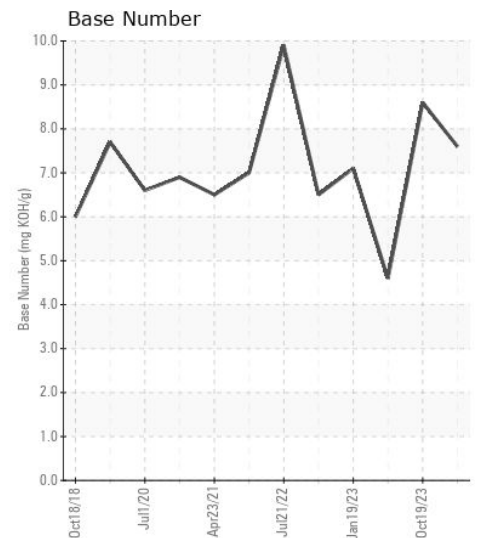
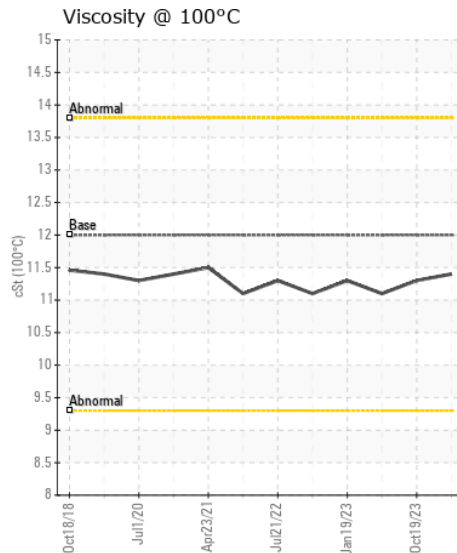
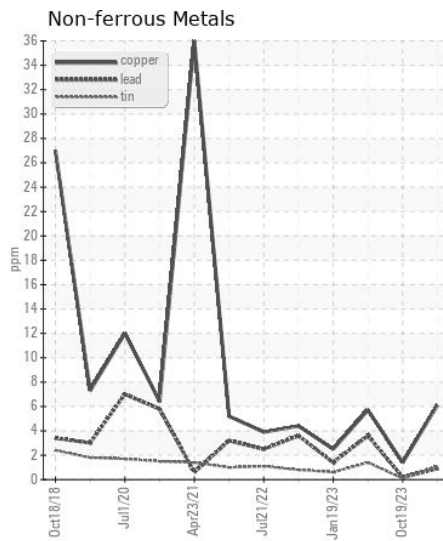
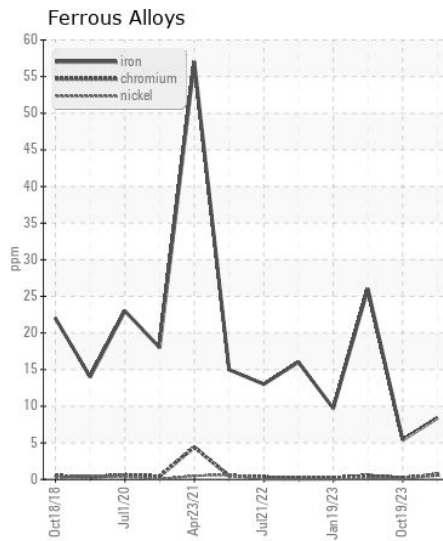
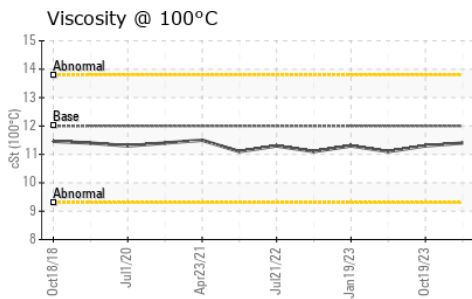
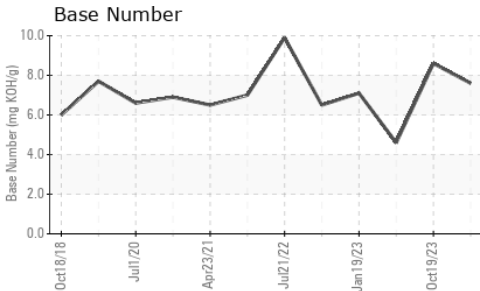
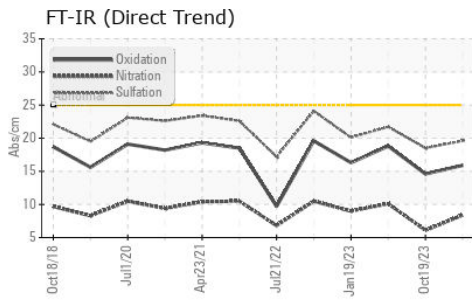
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	4	3	7
Potassium	ppm	ASTM D5185m	>20	3	<1	3
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	0.4	0.2	0.7
Nitration	Abs/cm	*ASTM D7624	>20	8.4	6.1	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	18.5	21.7
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		6	4	19
Boron	ppm	ASTM D5185m	2	<1	1	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	60	57	62
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	950	919	995	892
Calcium	ppm	ASTM D5185m	1050	1067	1089	1095
Phosphorus	ppm	ASTM D5185m	995	1019	1034	978
Zinc	ppm	ASTM D5185m	1180	1202	1300	1222
Sulfur	ppm	ASTM D5185m	2600	2982	3203	2545
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9	14.6	18.8
Base Number (BN)	mg KOH/g	ASTM D2896		7.6	8.6	4.6
Visc @ 100°C	cSt	ASTM D445	12.00	11.4	11.3	11.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0119910 **Received** : 22 Apr 2024
Lab Number : 06156676 **Tested** : 23 Apr 2024
Unique Number : 10992099 **Diagnosed** : 23 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)