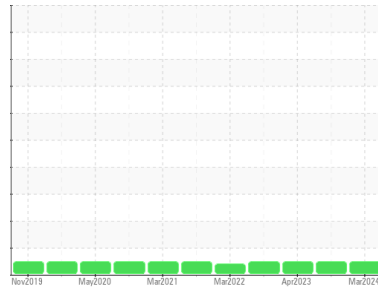


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
100120
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0110679	PCA0097395	PCA0083832
Sample Date	Client Info		27 Mar 2024	05 Sep 2023	26 Apr 2023
Machine Age	mls Client Info		111171	101011	95243
Oil Age	mls Client Info		3572	5768	1086
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	<1.0
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	>100	25	37	57
Chromium	ppm ASTM D5185m	>20	<1	<1	1
Nickel	ppm ASTM D5185m	>4	0	<1	<1
Titanium	ppm ASTM D5185m		48	11	55
Silver	ppm ASTM D5185m	>3	0	0	0
Aluminum	ppm ASTM D5185m	>20	2	3	6
Lead	ppm ASTM D5185m	>40	<1	2	2
Copper	ppm ASTM D5185m	>330	13	10	28
Tin	ppm ASTM D5185m	>15	<1	2	2
Vanadium	ppm ASTM D5185m		<1	0	0
Cadmium	ppm ASTM D5185m		0	<1	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	2	77	5	18
Barium	ppm ASTM D5185m	0	0	0	0
Molybdenum	ppm ASTM D5185m	50	24	54	34
Manganese	ppm ASTM D5185m	0	<1	1	<1
Magnesium	ppm ASTM D5185m	950	600	907	736
Calcium	ppm ASTM D5185m	1050	1610	1161	1721
Phosphorus	ppm ASTM D5185m	995	1044	1042	1019
Zinc	ppm ASTM D5185m	1180	1205	1289	1283
Sulfur	ppm ASTM D5185m	2600	4405	3274	3959

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25	5	7	7
Sodium	ppm ASTM D5185m		2	4	3
Potassium	ppm ASTM D5185m	>20	<1	3	2

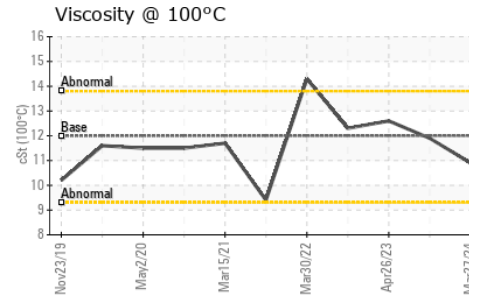
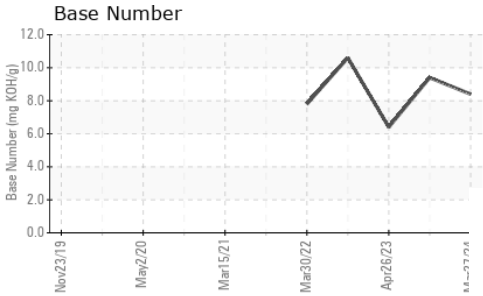
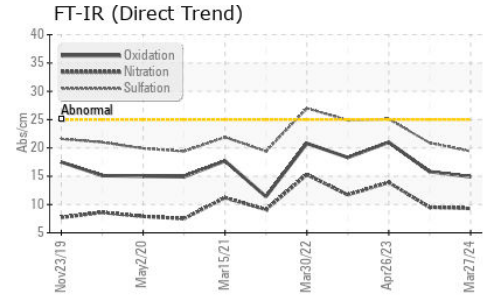
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>3	0.7	1.3	1.8
Nitration	Abs/cm *ASTM D7624	>20	9.3	9.5	13.9
Sulfation	Abs/.1mm *ASTM D7415	>30	19.4	20.9	25.1

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	14.9	15.8	21.0
Base Number (BN)	mg KOH/g ASTM D2896		8.4	9.4	6.4

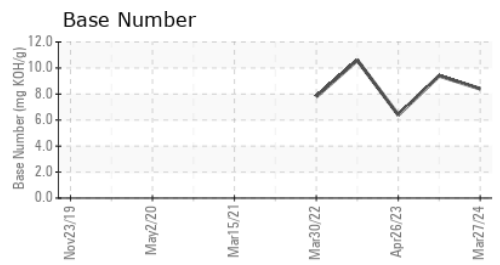
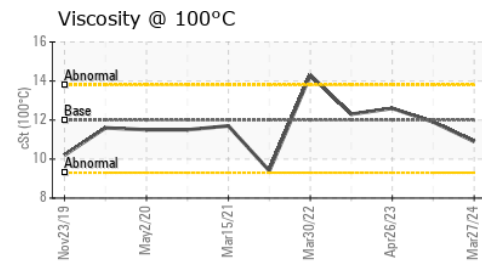
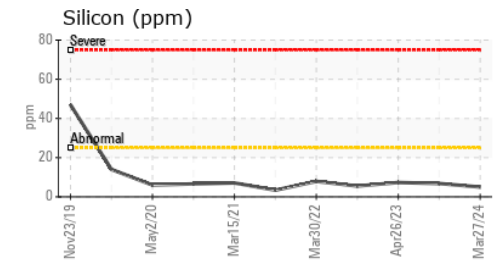
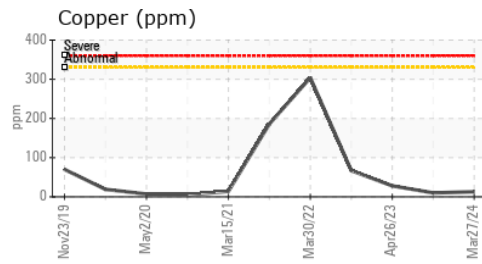
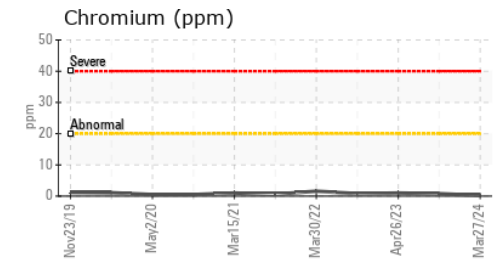
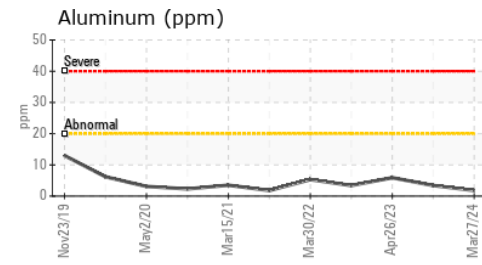
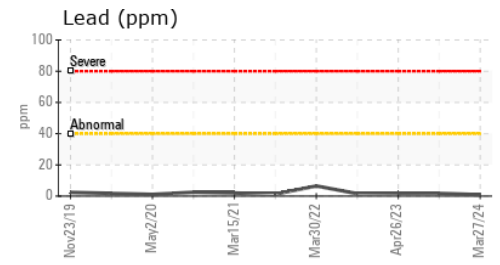
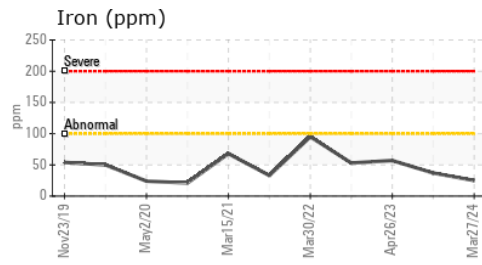
OIL ANALYSIS REPORT



PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
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
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	12.00	10.9	11.9	12.6

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0110679 **Received** : 08 Apr 2024
Lab Number : 06140813 **Tested** : 08 Apr 2024
Unique Number : 10965621 **Diagnosed** : 10 Apr 2024 - Sean Felton
Test Package : MOB 1 (Additional Tests: TBN)

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 LANCASTER, PA
 US 17601
 Contact: RON ROBERTS
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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)