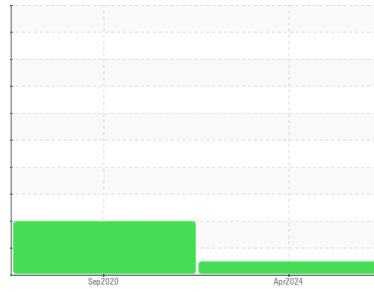


OIL ANALYSIS REPORT

Area
Charlestown
 Machine Id
668
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (10 GAL)

Sample Rating Trend



DIAGNOSIS

- Recommendation**
 Resample at the next service interval to monitor.
- 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		PCA0098448	PCA0018667	---
Sample Date	Client Info		09 Apr 2024	29 Sep 2020	---
Machine Age	mls	Client Info	227485	19027	---
Oil Age	mls	Client Info	18000	0	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			NORMAL	ABNORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<1.0	<1.0	---
Water	WC Method	>0.2	NEG	NEG	---
Glycol	WC Method		NEG	0.0	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >65	10	41	---
Chromium	ppm	ASTM D5185m >5	1	2	---
Nickel	ppm	ASTM D5185m >3	0	1	---
Titanium	ppm	ASTM D5185m >5	<1	<1	---
Silver	ppm	ASTM D5185m >2	0	<1	---
Aluminum	ppm	ASTM D5185m >35	7	42	---
Lead	ppm	ASTM D5185m >10	0	<1	---
Copper	ppm	ASTM D5185m >180	6	545	---
Tin	ppm	ASTM D5185m >8	<1	7	---
Antimony	ppm	ASTM D5185m >35	---	0	---
Vanadium	ppm	ASTM D5185m	0	<1	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	3	40	---
Barium	ppm	ASTM D5185m 0	0	<1	---
Molybdenum	ppm	ASTM D5185m 50	60	14	---
Manganese	ppm	ASTM D5185m 0	<1	4	---
Magnesium	ppm	ASTM D5185m 950	956	639	---
Calcium	ppm	ASTM D5185m 1050	1069	1362	---
Phosphorus	ppm	ASTM D5185m 995	1089	652	---
Zinc	ppm	ASTM D5185m 1180	1288	781	---
Sulfur	ppm	ASTM D5185m 2600	3511	2167	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	5	6	---
Sodium	ppm	ASTM D5185m	3	6	---
Potassium	ppm	ASTM D5185m >20	7	90	---

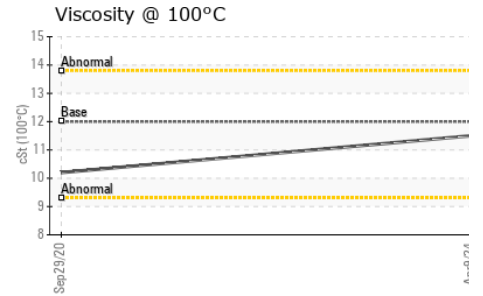
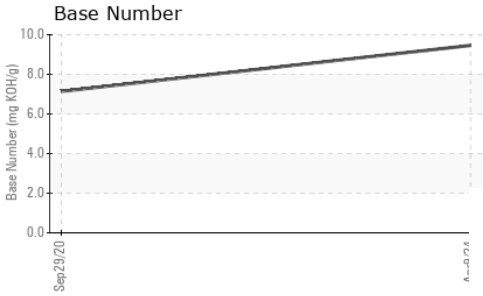
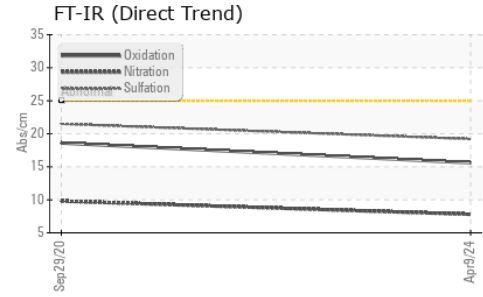
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.4	0.3	---
Nitration	Abs/cm	*ASTM D7624 >20	7.8	9.8	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	19.2	21.5	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	15.6	18.6	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.46	7.14	---

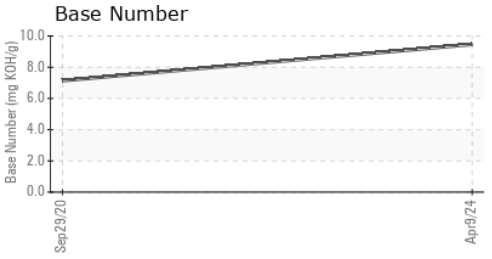
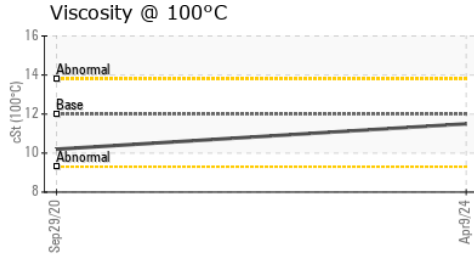
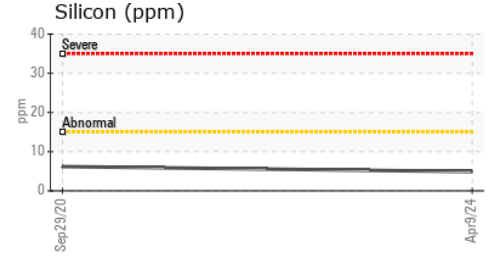
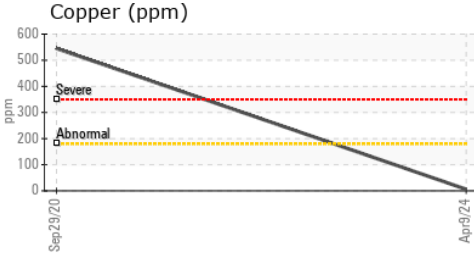
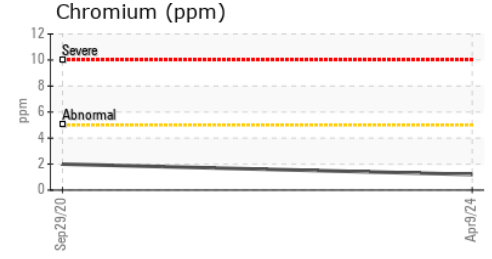
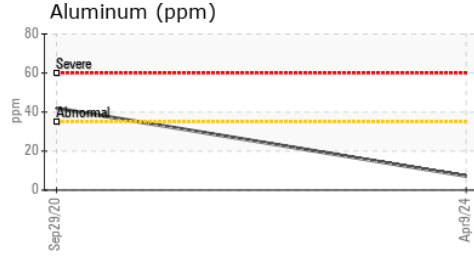
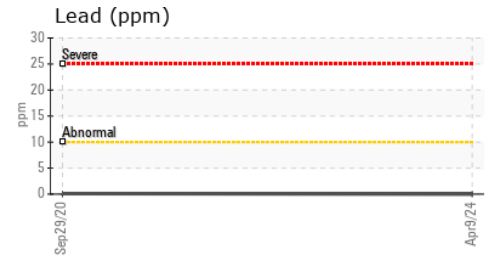
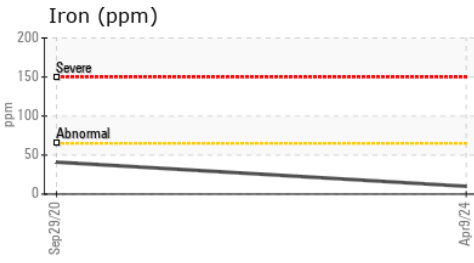
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	LIGHT	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	11.5	10.2	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0098448 **Received** : 17 Apr 2024
Lab Number : **06152175** **Tested** : 18 Apr 2024
Unique Number : 10982253 **Diagnosed** : 18 Apr 2024 - Wes Davis
Test Package : MOB 2

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 F:

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)