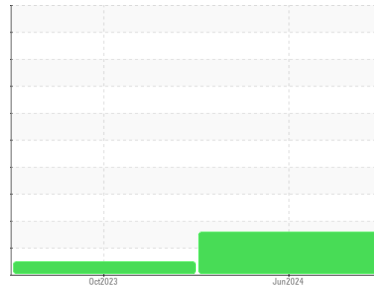


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
130129
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

- Recommendation**
 No corrective action is recommended at this time. Resample at the next service interval to monitor.
- Wear**
 Metal levels are typical for a new component breaking in.
- Contamination**
 Elemental level of silicon (Si) above normal indicating ingress of seal material.
- Fluid Condition**
 The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0127000	PCA0110442	---
Sample Date	Client Info	01 Jun 2024	25 Oct 2023	---
Machine Age	mls	295	263	---
Oil Age	mls	0	0	---
Oil Changed	Client Info	Not Chngd	Not Chngd	---
Sample Status		ABNORMAL	NORMAL	---

CONTAMINATION

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

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >100	52	37	---
Chromium	ppm ASTM D5185m >20	<1	<1	---
Nickel	ppm ASTM D5185m >4	0	<1	---
Titanium	ppm ASTM D5185m	<1	<1	---
Silver	ppm ASTM D5185m >3	0	<1	---
Aluminum	ppm ASTM D5185m >20	6	4	---
Lead	ppm ASTM D5185m >40	1	1	---
Copper	ppm ASTM D5185m >330	51	46	---
Tin	ppm ASTM D5185m >15	1	1	---
Vanadium	ppm ASTM D5185m	0	<1	---
Cadmium	ppm ASTM D5185m	0	<1	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	260	250	---
Barium	ppm ASTM D5185m 0	2	6	---
Molybdenum	ppm ASTM D5185m 50	15	10	---
Manganese	ppm ASTM D5185m 0	2	2	---
Magnesium	ppm ASTM D5185m 950	83	26	---
Calcium	ppm ASTM D5185m 1050	999	991	---
Phosphorus	ppm ASTM D5185m 995	843	811	---
Zinc	ppm ASTM D5185m 1180	960	930	---
Sulfur	ppm ASTM D5185m 2600	3399	3209	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	▲ 55	55	---
Sodium	ppm ASTM D5185m	4	0	---
Potassium	ppm ASTM D5185m >20	4	5	---

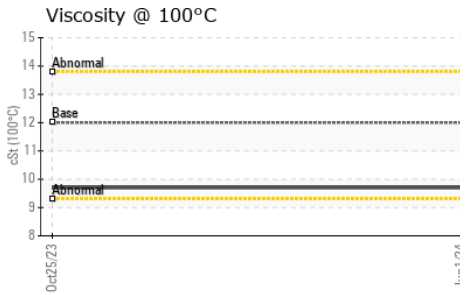
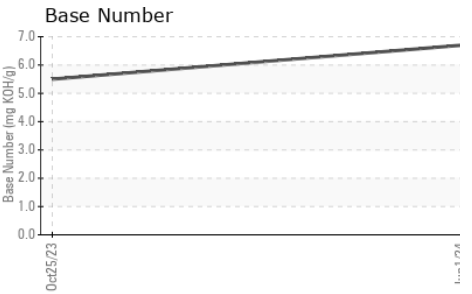
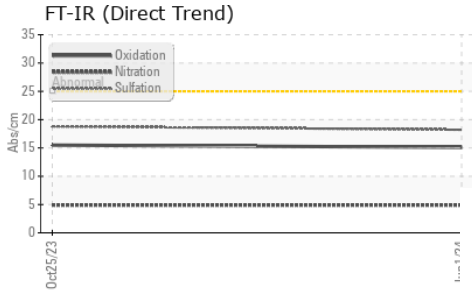
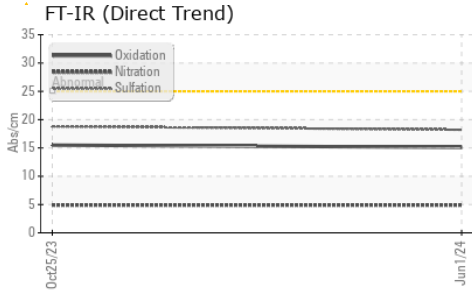
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.1	0.1	---
Nitration	Abs/cm *ASTM D7624 >20	4.9	4.9	---
Sulfation	Abs/.1mm *ASTM D7415 >30	18.2	18.8	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	15.1	15.5	---
Base Number (BN)	mg KOH/g ASTM D2896	6.7	5.5	---

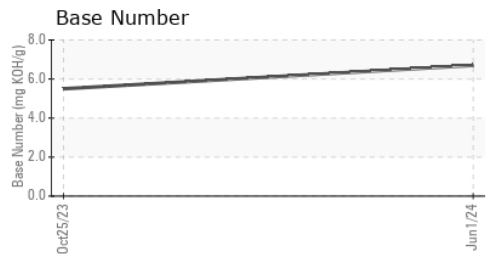
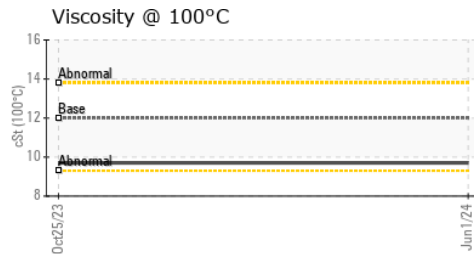
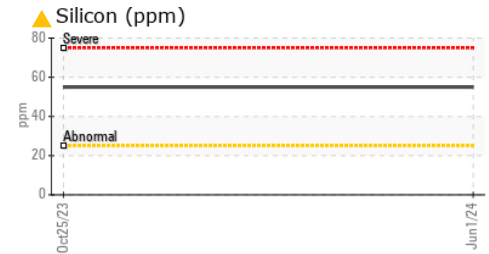
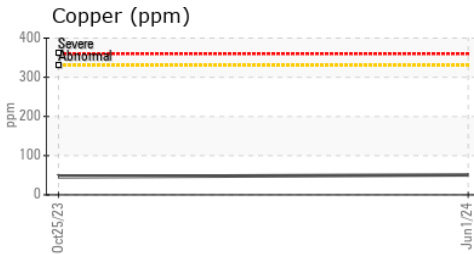
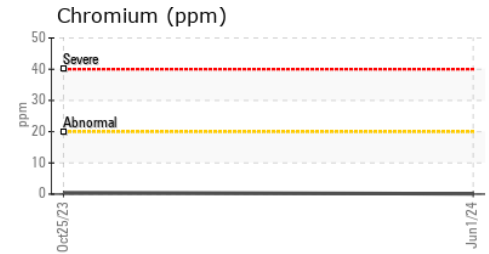
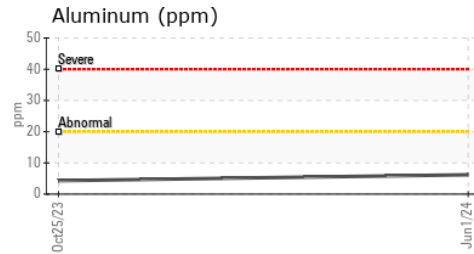
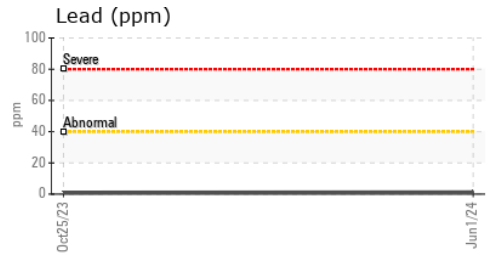
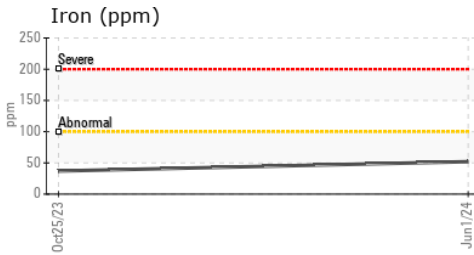
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	12.00	9.7	9.7	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0127000 **Received** : 14 Jun 2024
Lab Number : **06209797** **Tested** : 15 Jun 2024
Unique Number : 11082661 **Diagnosed** : 17 Jun 2024 - Don Baldrige
Test Package : MOB 1 (Additional Tests: TBN)

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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)