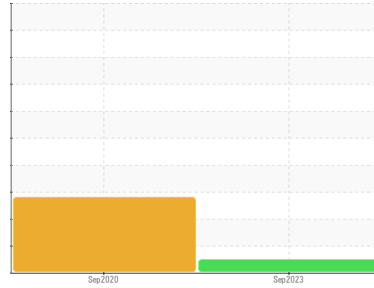


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
613283

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 10W30 (--- QTS)

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	PCA0099738	PCA0031246	---
Sample Date	Client Info	23 Sep 2023	30 Sep 2020	---
Machine Age	mls Client Info	0	16031	---
Oil Age	mls Client Info	10000	0	---
Oil Changed	Client Info	Changed	Changed	---
Sample Status		NORMAL	ABNORMAL	---

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	0.0	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >100	21	44	---
Chromium	ppm ASTM D5185m >20	1	7	---
Nickel	ppm ASTM D5185m >4	<1	1	---
Titanium	ppm ASTM D5185m	<1	<1	---
Silver	ppm ASTM D5185m >3	0	2	---
Aluminum	ppm ASTM D5185m >20	4	▲ 50	---
Lead	ppm ASTM D5185m >40	1	<1	---
Copper	ppm ASTM D5185m >330	20	▲ 702	---
Tin	ppm ASTM D5185m >15	<1	6	---
Antimony	ppm ASTM D5185m	---	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	166	68	---
Barium	ppm ASTM D5185m 0	0	0	---
Molybdenum	ppm ASTM D5185m 50	27	2	---
Manganese	ppm ASTM D5185m 0	<1	3	---
Magnesium	ppm ASTM D5185m 950	88	714	---
Calcium	ppm ASTM D5185m 1050	2208	1359	---
Phosphorus	ppm ASTM D5185m 995	1068	692	---
Zinc	ppm ASTM D5185m 1180	1243	807	---
Sulfur	ppm ASTM D5185m 2600	4357	2695	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	4	7	---
Sodium	ppm ASTM D5185m	2	6	---
Potassium	ppm ASTM D5185m >20	7	▲ 141	---

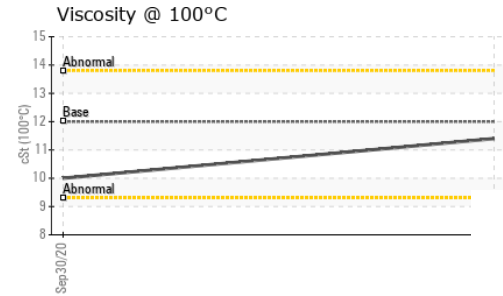
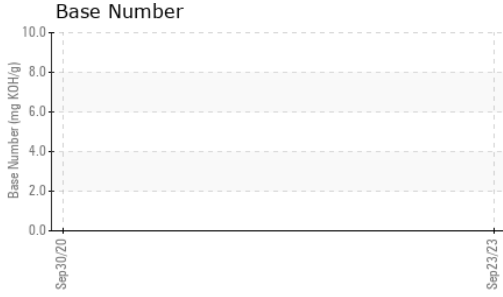
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.7	0.2	---
Nitration	Abs/cm *ASTM D7624 >20	10.8	9.4	---
Sulfation	Abs/.1mm *ASTM D7415 >30	20.2	20.3	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	18.1	15.6	---
Base Number (BN)	mg KOH/g ASTM D2896	8.5	---	---

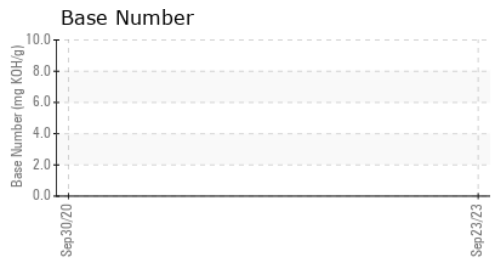
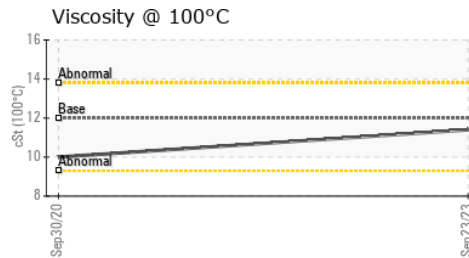
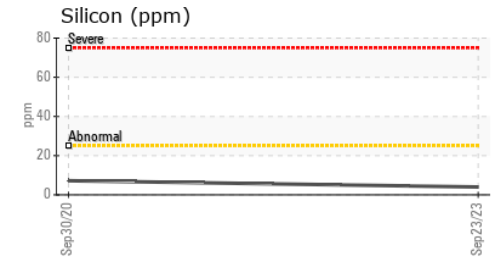
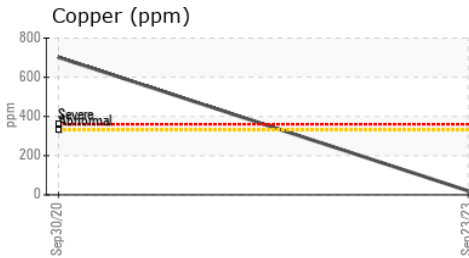
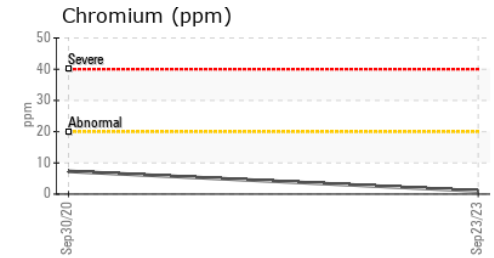
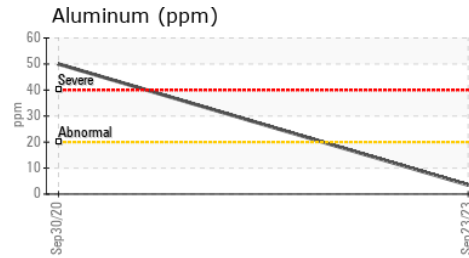
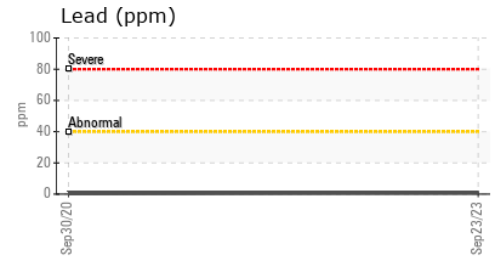
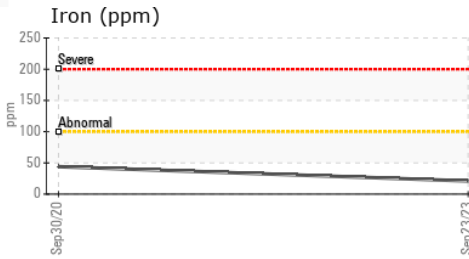
OIL ANALYSIS REPORT



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	11.4	10.0

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0099738 **Received** : 07 Dec 2023
Lab Number : 06027337 **Diagnosed** : 11 Dec 2023
Unique Number : 10777128 **Diagnostician** : Jonathan Hester
Test Package : MOB 1 (Additional Tests: TBN)

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 107 HOW LANE
 NEW BRUNSWICK, NJ
 US 08901
 Contact: Anthony Cursi
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 F: (732)400-8475

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)