

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
638644
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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	history 1	history 2
Sample Number	Client Info	PCA0100756	---	---
Sample Date	Client Info	29 Jun 2023	---	---
Machine Age	mls Client Info	53620	---	---
Oil Age	mls Client Info	53620	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		NORMAL	---	---

CONTAMINATION

method	limit/base	current	history 1	history 2
Fuel	WC Method >5	<1.0	---	---
Glycol	WC Method	NEG	---	---

WEAR METALS

method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185m >100	124	---	---
Chromium	ppm ASTM D5185m >20	8	---	---
Nickel	ppm ASTM D5185m >4	2	---	---
Titanium	ppm ASTM D5185m	<1	---	---
Silver	ppm ASTM D5185m >3	<1	---	---
Aluminum	ppm ASTM D5185m >20	75	---	---
Lead	ppm ASTM D5185m >40	0	---	---
Copper	ppm ASTM D5185m >330	295	---	---
Tin	ppm ASTM D5185m >15	7	---	---
Vanadium	ppm ASTM D5185m	0	---	---
Cadmium	ppm ASTM D5185m	0	---	---

ADDITIVES

method	limit/base	current	history 1	history 2
Boron	ppm ASTM D5185m 2	23	---	---
Barium	ppm ASTM D5185m 0	0	---	---
Molybdenum	ppm ASTM D5185m 50	53	---	---
Manganese	ppm ASTM D5185m 0	7	---	---
Magnesium	ppm ASTM D5185m 950	645	---	---
Calcium	ppm ASTM D5185m 1050	2083	---	---
Phosphorus	ppm ASTM D5185m 995	843	---	---
Zinc	ppm ASTM D5185m 1180	1087	---	---
Sulfur	ppm ASTM D5185m 2600	2443	---	---

CONTAMINANTS

method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m >25	12	---	---
Sodium	ppm ASTM D5185m	10	---	---
Potassium	ppm ASTM D5185m >20	184	---	---

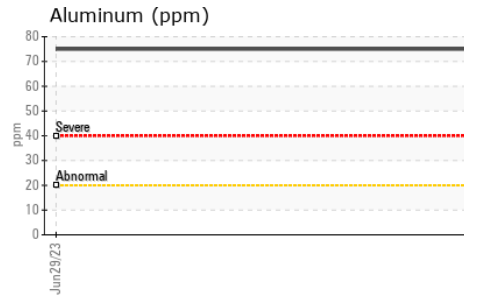
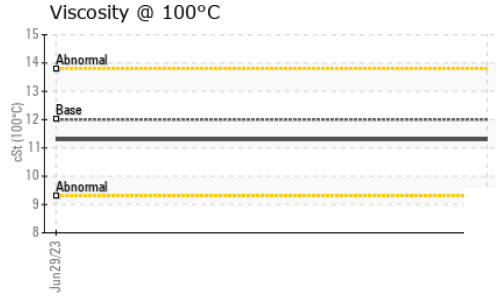
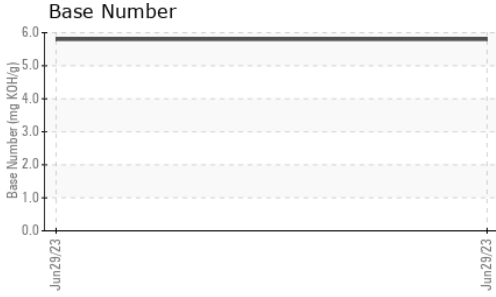
INFRA-RED

method	limit/base	current	history 1	history 2
Soot %	% *ASTM D7844 >3	1.8	---	---
Nitration	Abs/cm *ASTM D7624 >20	17.5	---	---
Sulfation	Abs/.1mm *ASTM D7415 >30	29.8	---	---

FLUID DEGRADATION

method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm *ASTM D7414 >25	33.8	---	---
Base Number (BN)	mg KOH/g ASTM D2896	5.8	---	---

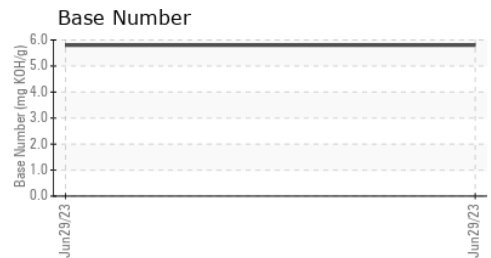
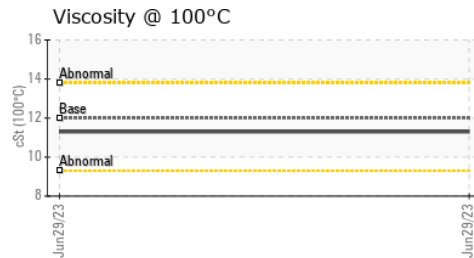
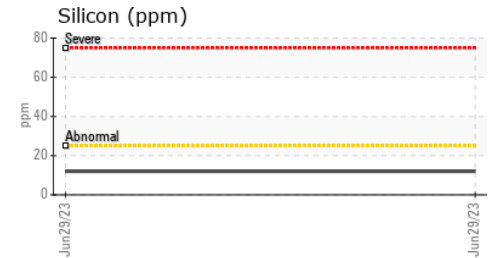
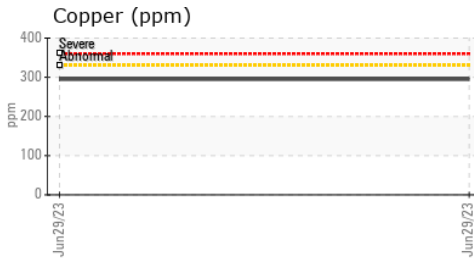
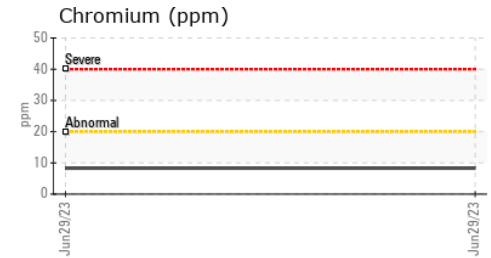
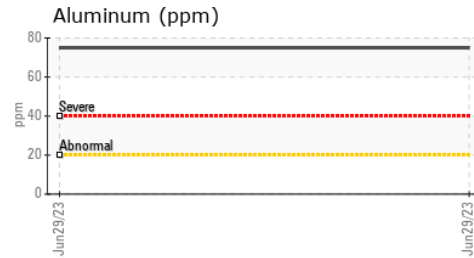
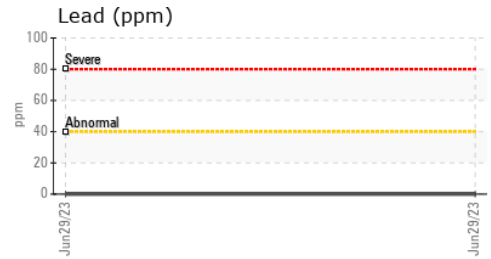
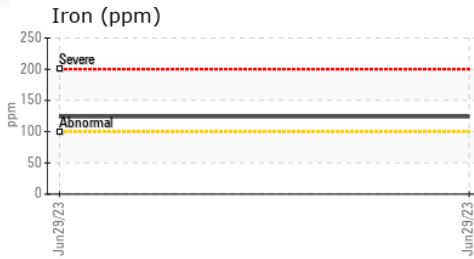
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history 1	history 2
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	history 1	history 2
Visc @ 100°C	cSt	ASTM D445	12.00	11.3	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0100756 **Received** : 07 Jul 2023
Lab Number : 05891982 **Diagnosed** : 09 Jul 2023
Unique Number : 10547792 **Diagnostician** : Doug Bogart
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)