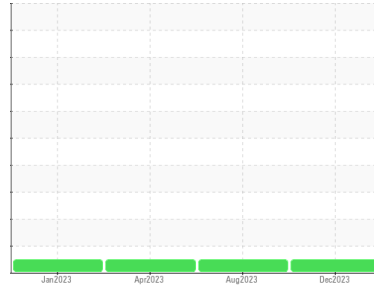


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
538647
 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

Metal levels are typical for a new component breaking in.

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	history1	history2
Sample Number	Client Info		PCA0115188	PCA0104243	PCA0095925
Sample Date	Client Info		29 Dec 2023	22 Aug 2023	09 Apr 2023
Machine Age	mls	Client Info	59000	45117	29451
Oil Age	mls	Client Info	0	0	0
Oil Changed	Client Info		Not Changed	Changed	Not 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	52	37
Chromium	ppm	ASTM D5185m >20	2	4	2
Nickel	ppm	ASTM D5185m >4	<1	<1	<1
Titanium	ppm	ASTM D5185m	<1	0	0
Silver	ppm	ASTM D5185m >3	<1	<1	0
Aluminum	ppm	ASTM D5185m >20	20	56	47
Lead	ppm	ASTM D5185m >40	0	0	<1
Copper	ppm	ASTM D5185m >330	105	139	193
Tin	ppm	ASTM D5185m >15	3	7	6
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	17	24	29
Barium	ppm	ASTM D5185m 0	10	0	2
Molybdenum	ppm	ASTM D5185m 50	60	46	45
Manganese	ppm	ASTM D5185m 0	1	4	4
Magnesium	ppm	ASTM D5185m 950	729	582	544
Calcium	ppm	ASTM D5185m 1050	1304	1748	1529
Phosphorus	ppm	ASTM D5185m 995	950	713	707
Zinc	ppm	ASTM D5185m 1180	1069	927	867
Sulfur	ppm	ASTM D5185m 2600	2880	2475	2178

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	5	9	8
Sodium	ppm	ASTM D5185m	0	7	6
Potassium	ppm	ASTM D5185m >20	54	159	146

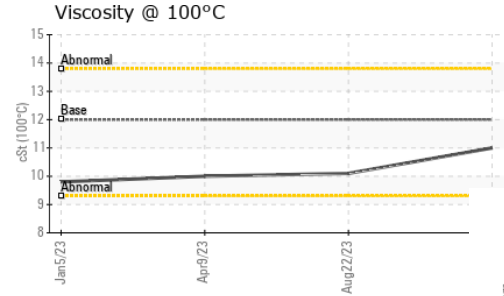
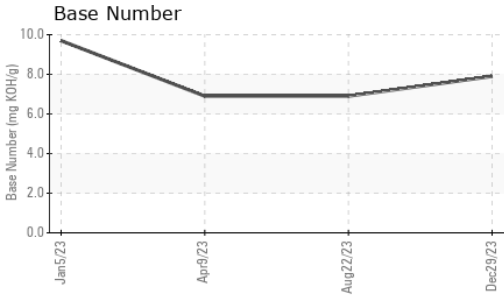
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.6	0.7	0.4
Nitration	Abs/cm	*ASTM D7624 >20	8.4	11.3	9.1
Sulfation	Abs/.1mm	*ASTM D7415 >30	20.7	22.5	20.9

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	16.6	22.1	20.6
Base Number (BN)	mg KOH/g	ASTM D2896	7.9	6.9	6.9

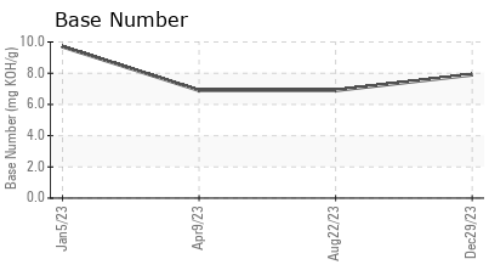
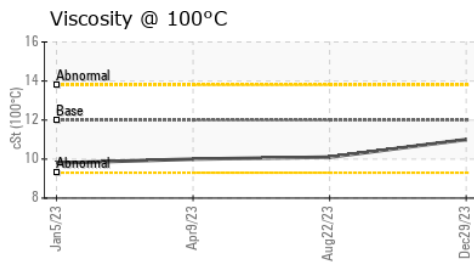
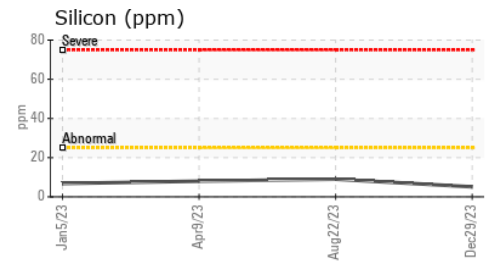
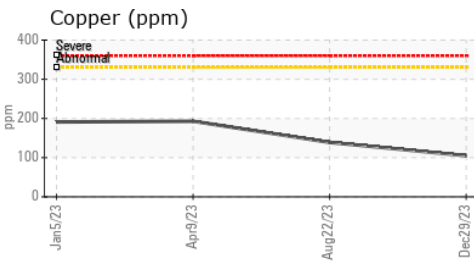
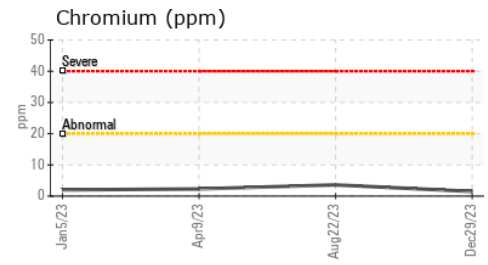
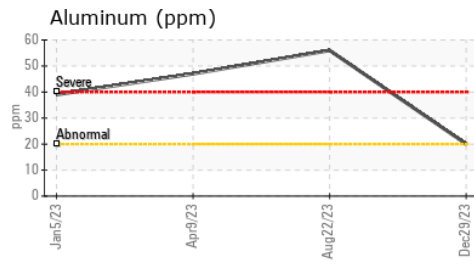
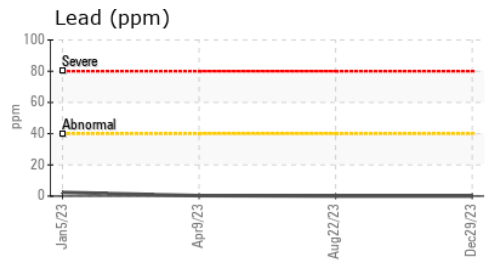
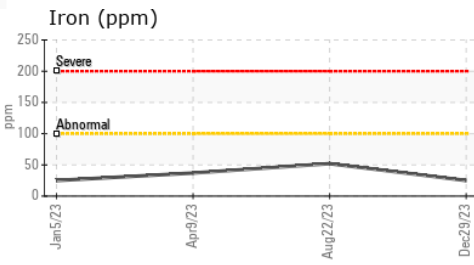
OIL ANALYSIS REPORT



VISUAL	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	11.0	10.1	10.0

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0115188 **Received** : 05 Jan 2024
Lab Number : 06052560 **Diagnosed** : 08 Jan 2024
Unique Number : 10818509 **Diagnostician** : Wes Davis
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)