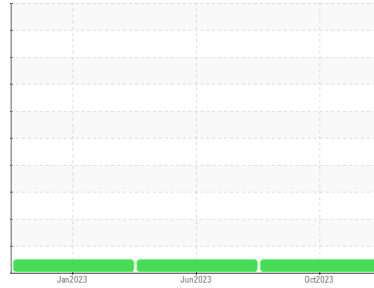


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
738211
 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

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		PCA0108374	PCA0095770	PCA0085185
Sample Date	Client Info		25 Oct 2023	07 Jun 2023	20 Jan 2023
Machine Age	mls	Client Info	55203	127826	72473
Oil Age	mls	Client Info	55203	127826	72473
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	42	58	108
Chromium	ppm	ASTM D5185m >20	1	3	7
Nickel	ppm	ASTM D5185m >4	0	1	1
Titanium	ppm	ASTM D5185m	2	8	<1
Silver	ppm	ASTM D5185m >3	0	0	<1
Aluminum	ppm	ASTM D5185m >20	16	31	95
Lead	ppm	ASTM D5185m >40	0	0	<1
Copper	ppm	ASTM D5185m >330	29	47	191
Tin	ppm	ASTM D5185m >15	0	3	8
Vanadium	ppm	ASTM D5185m	0	0	<1
Cadmium	ppm	ASTM D5185m	0	0	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	2	6	21
Barium	ppm	ASTM D5185m 0	0	<1	2
Molybdenum	ppm	ASTM D5185m 50	61	55	53
Manganese	ppm	ASTM D5185m 0	<1	1	4
Magnesium	ppm	ASTM D5185m 950	910	828	571
Calcium	ppm	ASTM D5185m 1050	1213	1367	1907
Phosphorus	ppm	ASTM D5185m 995	942	943	786
Zinc	ppm	ASTM D5185m 1180	1236	1200	993
Sulfur	ppm	ASTM D5185m 2600	2211	2469	1930

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	8	7	14
Sodium	ppm	ASTM D5185m	3	2	8
Potassium	ppm	ASTM D5185m >20	33	71	221

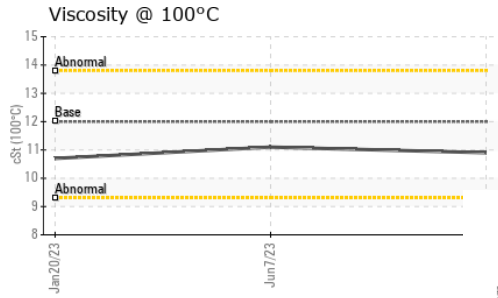
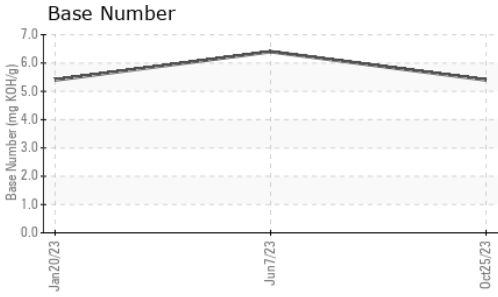
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	1.3	1.2	1.5
Nitration	Abs/cm	*ASTM D7624 >20	10.9	11.8	14.3
Sulfation	Abs/.1mm	*ASTM D7415 >30	23.6	23.3	26.6

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	21.2	21.3	29.8
Base Number (BN)	mg KOH/g	ASTM D2896	5.4	6.4	5.4

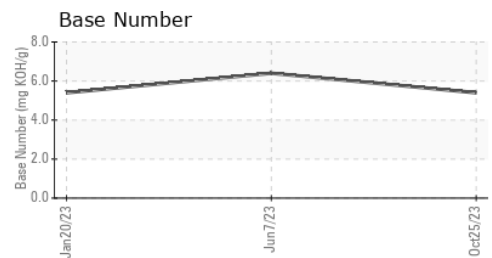
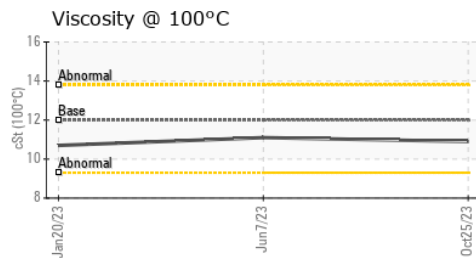
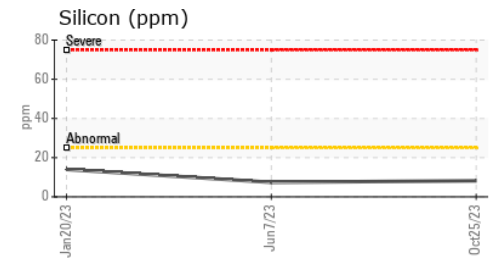
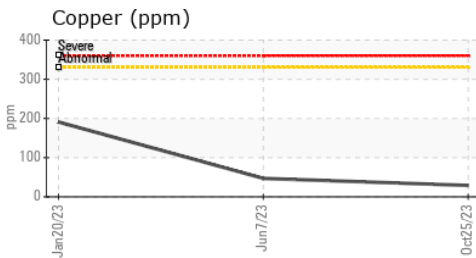
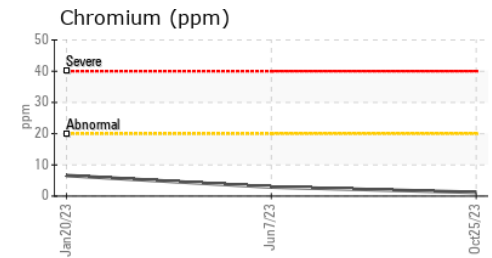
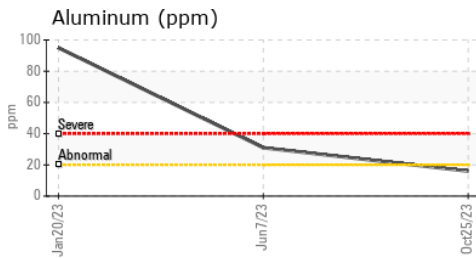
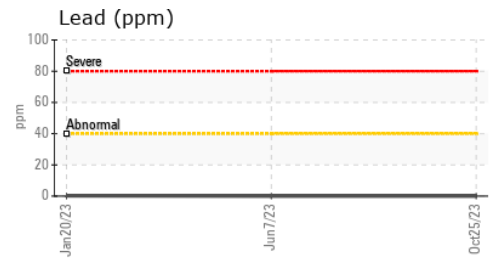
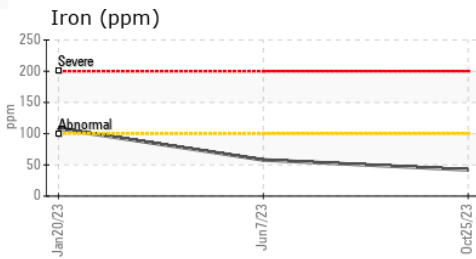
OIL ANALYSIS REPORT



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	10.9	11.1	10.7

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0108374 **Received** : 06 Nov 2023
Lab Number : 05998739 **Diagnosed** : 06 Nov 2023
Unique Number : 10727099 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: TBN)

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)

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