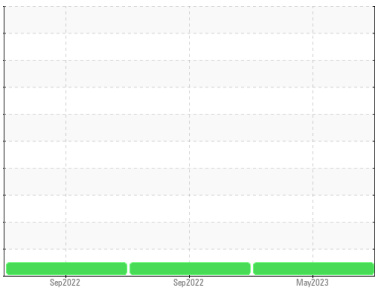
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
G100
Component
Biogas Engine
Fluid
PETRO CANADA SENTRON LD 5000 (--- GAL)

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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history 1	history 2
Sample Number		Client Info		**PCA0069049**	PCA0069038	PCA0069029
Sample Date		Client Info		**31 May 2023**	21 Sep 2022	08 Sep 2022
Machine Age	hrs	Client Info		**8728**	4211	4290
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**NORMAL**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history 1	history 2
Fuel		WC Method	>4.0	**<1.0**	<1.0	<1.0
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>45	**8**	4	<1
Chromium	ppm	ASTM D5185m	>2	**<1**	<1	0
Nickel	ppm	ASTM D5185m	>2	**<1**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m	>5	**0**	0	0
Aluminum	ppm	ASTM D5185m	>10	**2**	2	2
Lead	ppm	ASTM D5185m	>5	**2**	<1	<1
Copper	ppm	ASTM D5185m	>14	**1**	<1	0
Tin	ppm	ASTM D5185m	>13	**<1**	<1	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

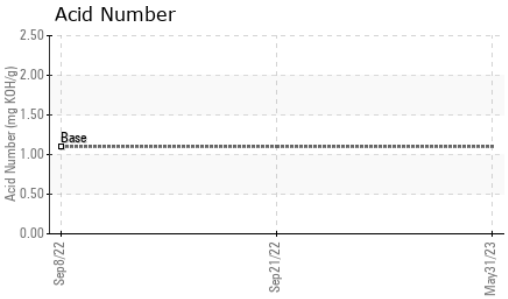
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	2	**0**	<1	0
Barium	ppm	ASTM D5185m	3	**0**	0	0
Molybdenum	ppm	ASTM D5185m	0	**1**	1	2
Manganese	ppm	ASTM D5185m	0	**<1**	<1	0
Magnesium	ppm	ASTM D5185m	4	**11**	13	10
Calcium	ppm	ASTM D5185m	1727	**2153**	2062	1614
Phosphorus	ppm	ASTM D5185m	272	**329**	363	297
Zinc	ppm	ASTM D5185m	333	**418**	402	336
Sulfur	ppm	ASTM D5185m	3415	**4206**	4164	2851

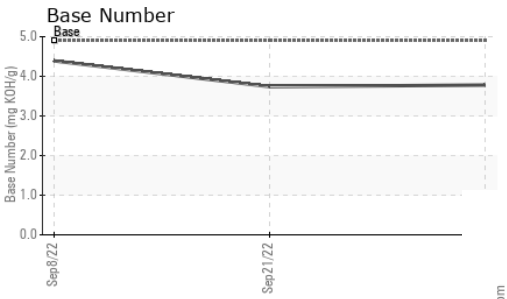
CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>200	**2**	4	10
Sodium	ppm	ASTM D5185m		**3**	2	0
Potassium	ppm	ASTM D5185m	>20	**<1**	<1	0

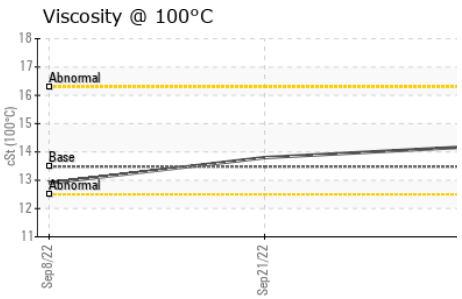
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844		**0.1**	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	**7.1**	6.6	4.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	**21.7**	19.9	16.7

FLUID DEGRADATION		method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**17.6**	13.2	8.7
Acid Number (AN)	mg KOH/g	ASTM D8045	1.1	**2.16**	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	4.9	**3.78**	3.74	4.39

OIL ANALYSIS REPORT



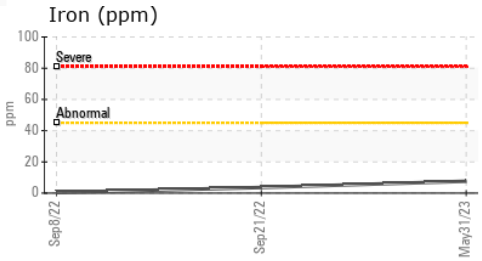


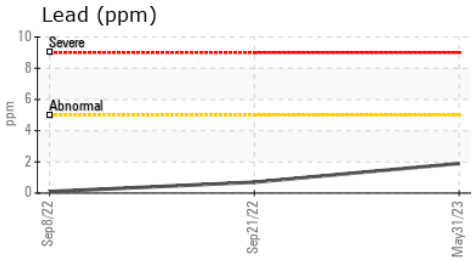


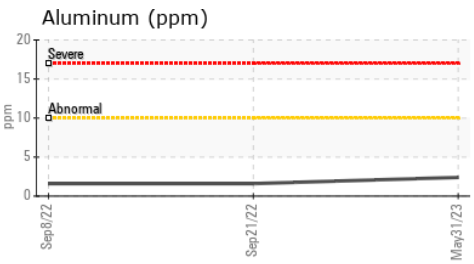
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

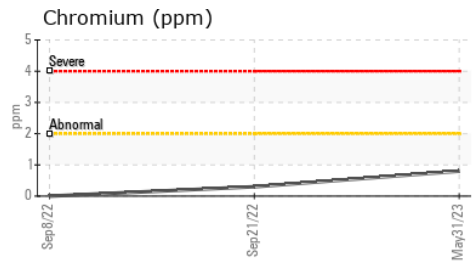
FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 100°C	cSt	ASTM D445	13.48	**14.2**	13.8	12.9

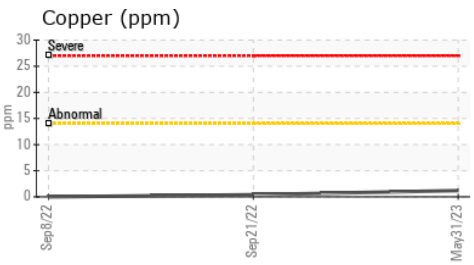
GRAPHS

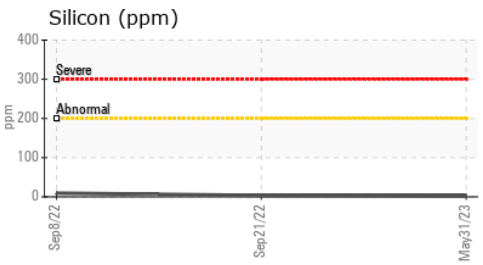


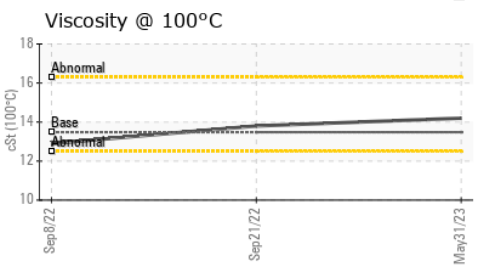


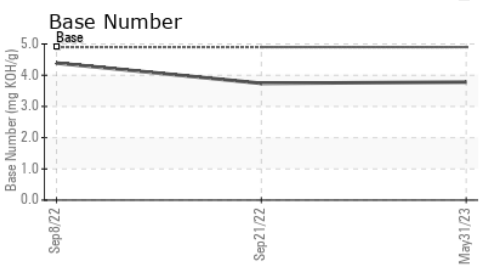












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0069049 **Received** : 29 Jun 2023
Lab Number : 05887514 **Diagnosed** : 04 Jul 2023
Unique Number : 10537997 **Diagnostician** : Don Baldridge
Test Package : MOB 2

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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