

Machine Id
Smith Ridge 1
Component
Compressor
Fluid
CITGO PACEMAKER GAS ENGINE 1700 SERIES 40W (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0117196	PCA0117147	PCA0117145
Sample Date		Client Info		02 May 2024	01 Apr 2024	05 Mar 2024
Machine Age	hrs	Client Info		186556	185876	185258
Oil Age	hrs	Client Info		186556	185876	185258
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	2	2	0
Chromium	ppm	ASTM D5185m	>10	<1	<1	0
Nickel	ppm	ASTM D5185m		<1	1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>25	<1	2	1
Lead	ppm	ASTM D5185m	>25	1	2	<1
Copper	ppm	ASTM D5185m	>50	12	9	3
Tin	ppm	ASTM D5185m	>15	1	1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

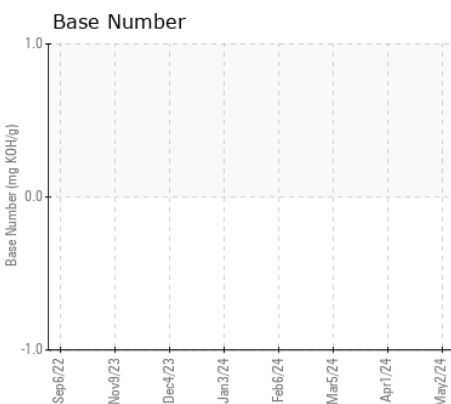
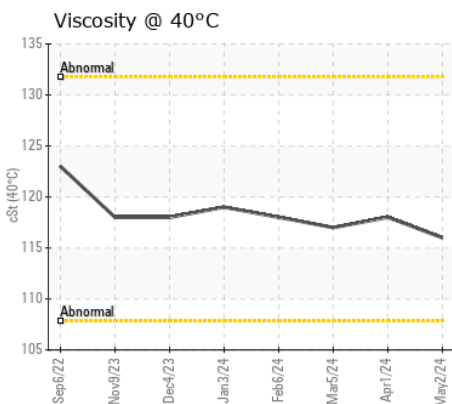
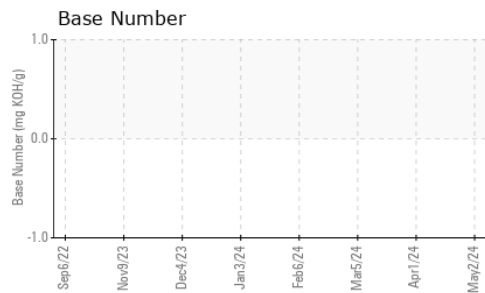
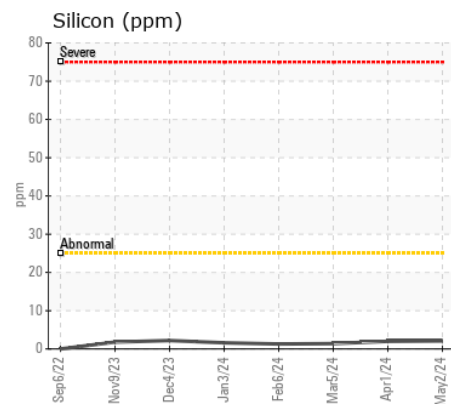
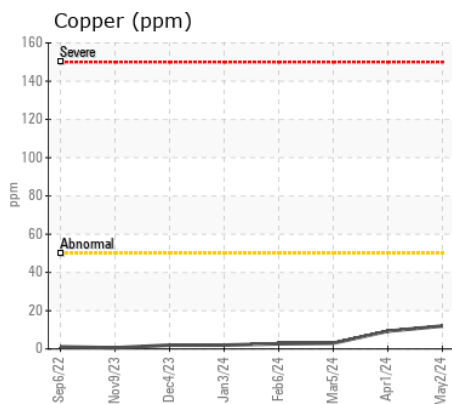
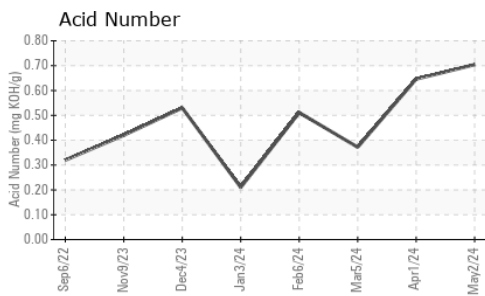
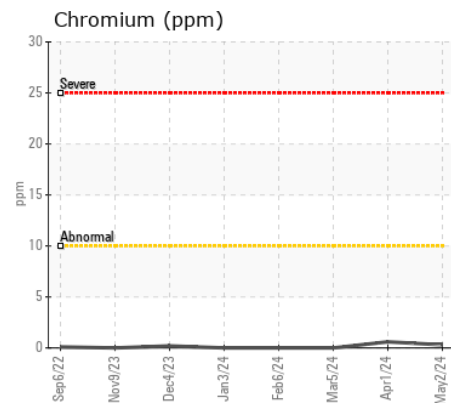
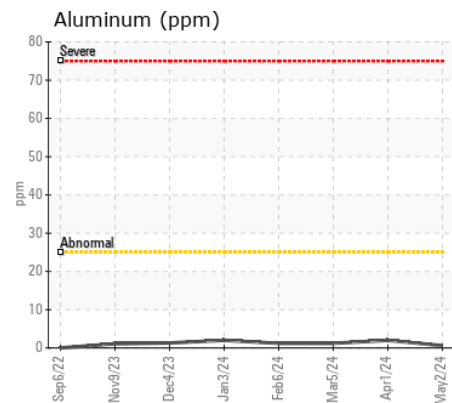
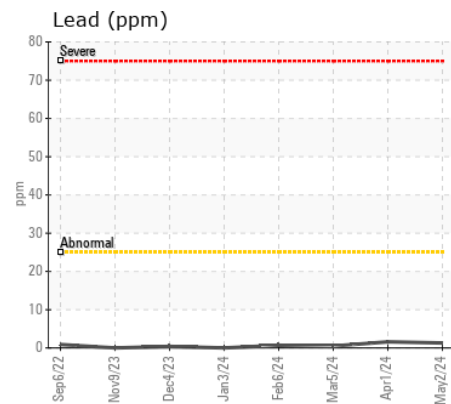
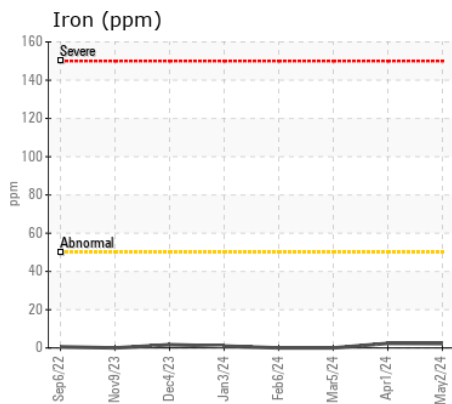
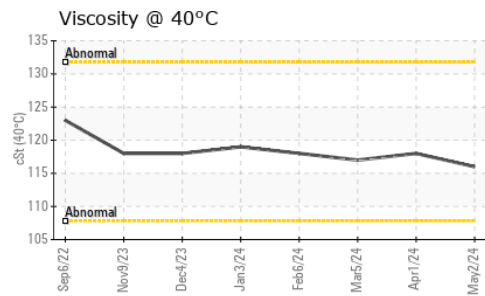
There is no indication of any contamination in the component.

Silicon	ppm	ASTM D5185m	>25	2	2	1
Potassium	ppm	ASTM D5185m	>20	2	1	1
Water		WC Method	>0.1	NEG	NEG	NEG
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

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		0	<1	1
Boron	ppm	ASTM D5185m		0	<1	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	2	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		11	15	14
Calcium	ppm	ASTM D5185m		1236	1638	1223
Phosphorus	ppm	ASTM D5185m		287	380	271
Zinc	ppm	ASTM D5185m		336	437	333
Sulfur	ppm	ASTM D5185m		2761	3546	2315
Acid Number (AN)	mg KOH/g	ASTM D8045		0.704	0.646	0.372
Visc @ 40°C	cSt	ASTM D445		116	118	117



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0117196 **Received** : 09 May 2024
Lab Number : 06174030 **Tested** : 12 May 2024
Unique Number : 11020083 **Diagnosed** : 12 May 2024 - Don Baldrige
Test Package : MOB 2 (Additional Tests: FuelDilution, TBN)

ENERVEST OPERATING - SMITH RIDGE
 2305 SMITH RIDGE
 MCCLURE, VA
 US 24269
 Contact: Service Manager

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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F: