

Machine Id  
**Abner Gap 1**  
Component  
**Natural Gas Engine**  
Fluid  
**CITGO PACEMAKER GAS ENGIN 1700 SERIES 40W (50 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0111852</b>	PCA0111849	PCA0111848
Sample Date		Client Info		<b>02 Jan 2024</b>	04 Dec 2023	10 Nov 2023
Machine Age	hrs	Client Info		<b>137595</b>	136903	136330
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>5</b>	1	1
Chromium	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>9	<b>2</b>	<1	<1
Lead	ppm	ASTM D5185m	>30	<b>&lt;1</b>	0	2
Copper	ppm	ASTM D5185m	>35	<b>4</b>	7	14
Tin	ppm	ASTM D5185m	>4	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

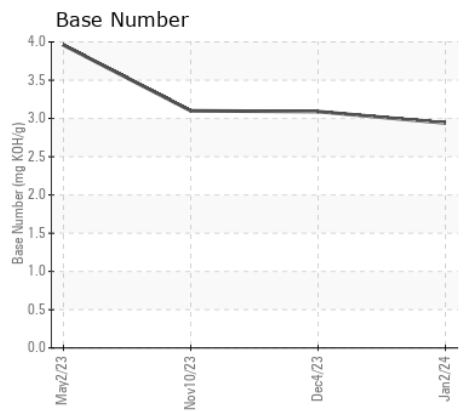
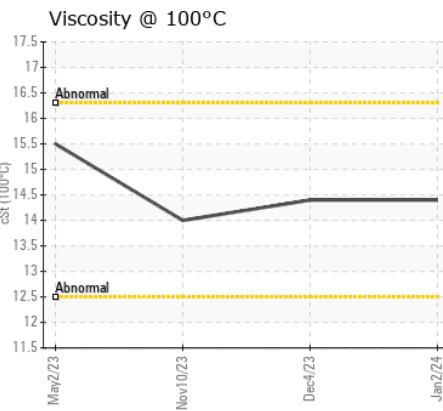
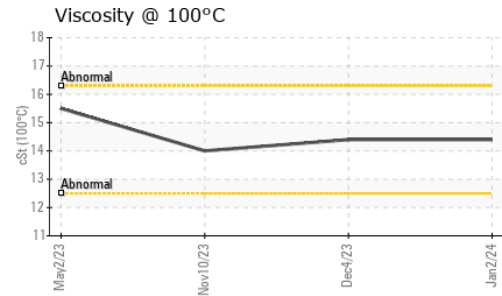
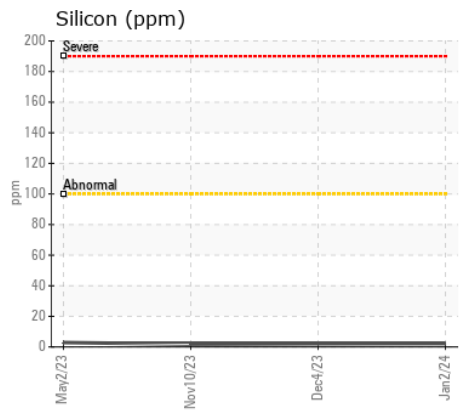
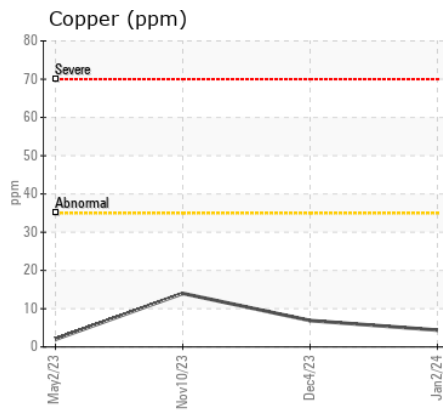
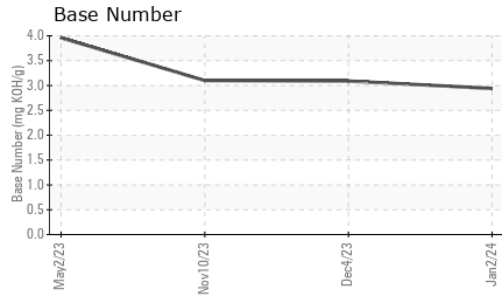
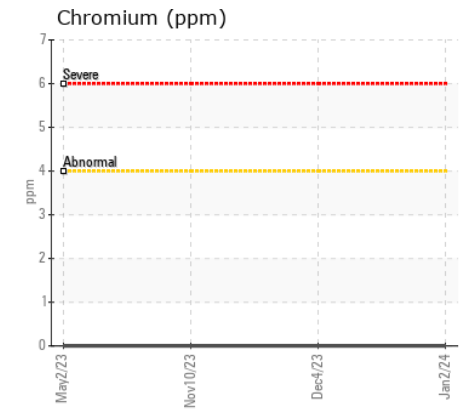
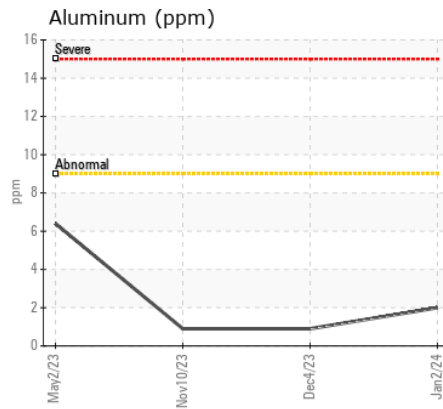
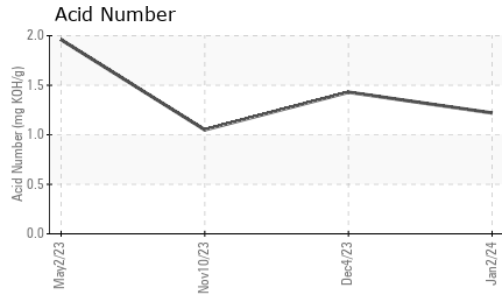
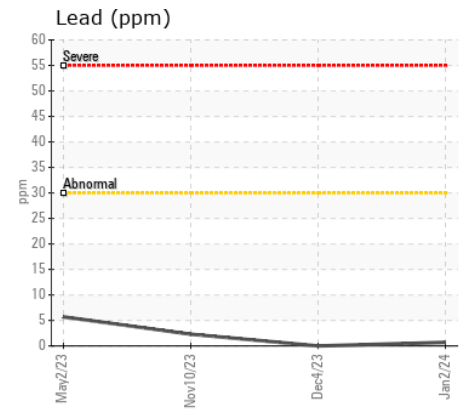
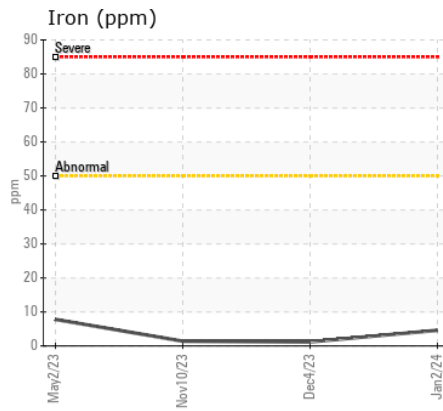
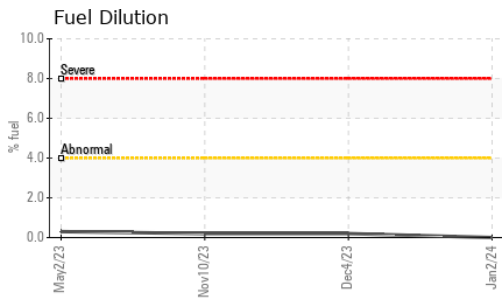
Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>2</b>	2	2
Potassium	ppm	ASTM D5185m	>20	<b>7</b>	13	28
Fuel	%	ASTM D3524	>4.0	<b>0.0</b>	0.2	0.2
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.9</b>	6.0	5.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.9</b>	18.8	16.9
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

**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.

Sodium	ppm	ASTM D5185m		<b>0</b>	4	8
Boron	ppm	ASTM D5185m		<b>0</b>	0	2
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>1</b>	<1	5
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>8</b>	10	9
Calcium	ppm	ASTM D5185m		<b>1650</b>	1538	1313
Phosphorus	ppm	ASTM D5185m		<b>383</b>	341	312
Zinc	ppm	ASTM D5185m		<b>458</b>	462	409
Sulfur	ppm	ASTM D5185m		<b>2799</b>	2585	2424
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.9</b>	15.4	12.7
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.22</b>	1.43	1.05
Base Number (BN)	mg KOH/g	ASTM D2896		<b>2.94</b>	3.09	3.10
Visc @ 100°C	cSt	ASTM D445		<b>14.4</b>	14.4	14.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0111852 **Received** : 10 Jan 2024  
**Lab Number** : 06057446 **Diagnosed** : 12 Jan 2024  
**Unique Number** : 10823395 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: FuelDilution, PercentFuel )

**ENERVEST OPERATING - ABNER GAP**  
 7556 SANDLICK ROAD  
 BEE, VA  
 US 24217  
 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)

T:  
F: