



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**G41**  
 Component  
**Natural Gas Engine**  
 Fluid  
**15W40 BULK CNG (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0841439</b>	WC0841416	WC0841396
Sample Date		Client Info		<b>06 Jun 2024</b>	07 Feb 2024	15 Sep 2023
Machine Age	hrs	Client Info		<b>3678</b>	3104	2562
Oil Age	hrs	Client Info		<b>563</b>	429	537
Filter Age	hrs	Client Info		<b>563</b>	429	537
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

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

## CONTAMINATION

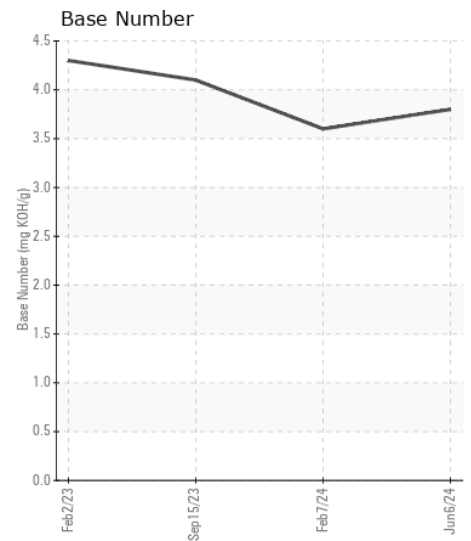
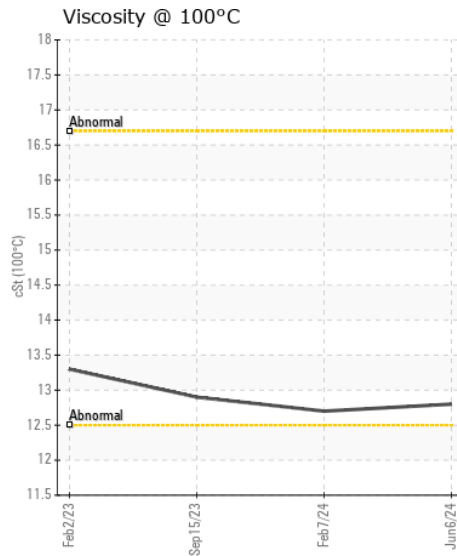
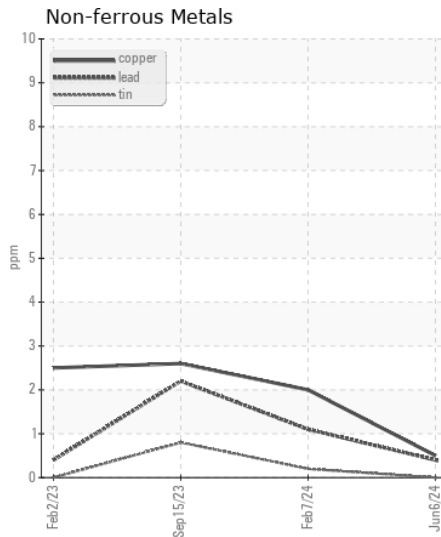
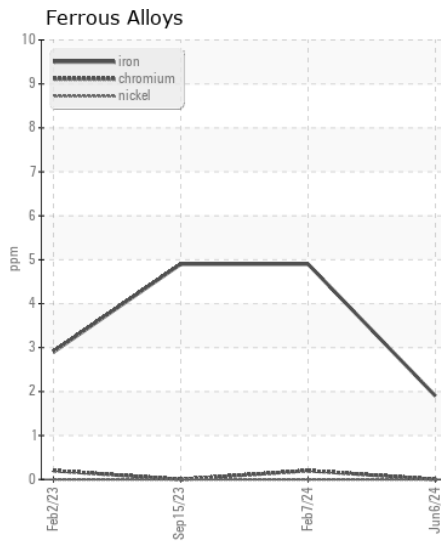
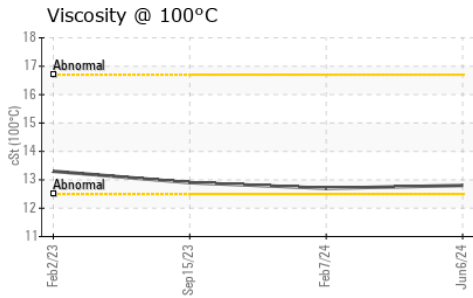
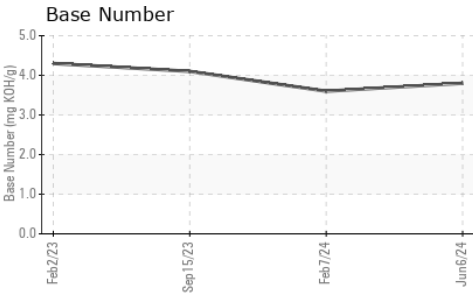
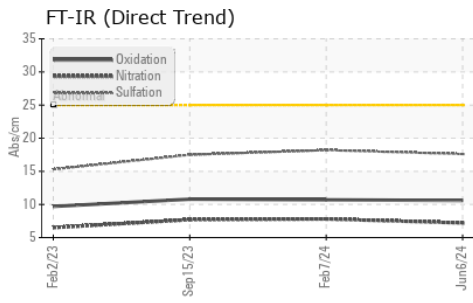
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>3</b>	4	6
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	3	4
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0.1</b>	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.2</b>	7.8	7.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>17.6</b>	18.2	17.5
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 condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	2	6
Boron	ppm	ASTM D5185m		<b>42</b>	56	47
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>98</b>	112	112
Manganese	ppm	ASTM D5185m		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m		<b>105</b>	95	86
Calcium	ppm	ASTM D5185m		<b>2033</b>	1871	2192
Phosphorus	ppm	ASTM D5185m		<b>786</b>	811	829
Zinc	ppm	ASTM D5185m		<b>911</b>	905	1045
Sulfur	ppm	ASTM D5185m		<b>3719</b>	3328	4414
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>10.6</b>	10.7	10.8
Base Number (BN)	mg KOH/g	ASTM D2896		<b>3.8</b>	3.6	4.1
Visc @ 100°C	cSt	ASTM D445		<b>12.8</b>	12.7	12.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0841439 **Received** : 19 Jun 2024  
**Lab Number** : 06214302 **Tested** : 20 Jun 2024  
**Unique Number** : 11087166 **Diagnosed** : 20 Jun 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: TBN )

**Apple Valley Waste - SEW Location**  
 309 Salina Road  
 Sewell, NJ  
 US 08080  
 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: