

## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id G40 Component Natural Gas Engine Fluid 15W40 CNG (--- 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 condition of the oil is suitable for further service.

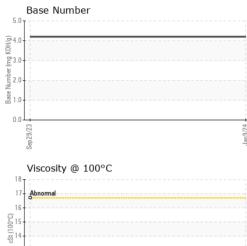
SAMPLE INFORM	<b>NATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0841406	WC0841404	
Sample Date		Client Info		09 Jan 2024	29 Sep 2023	
Machine Age	hrs	Client Info		7006	6476	
Oil Age	hrs	Client Info		526	496	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	4	3	
Chromium	ppm	ASTM D5185m	>4	<1	0	
Nickel	ppm	ASTM D5185m	>2	<1	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>9	4	1	
Lead	ppm	ASTM D5185m	>30	<1	0	
Copper	ppm	ASTM D5185m	>35	2	1	
Tin	ppm	ASTM D5185m	>4	<1	0	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		76	50	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		124	117	
Manganese	ppm	ASTM D5185m		•		
	ppm	ASTIVI DOTODITI		0	0	
Magnesium	ppm	ASTM D5185m		100	86	
Calcium		ASTM D5185m ASTM D5185m		100 2106	86 1914	
Calcium Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		100 2106 855	86 1914 750	
Calcium Phosphorus Zinc	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		100 2106 855 1043	86 1914 750 942	
Calcium Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		100 2106 855	86 1914 750	
Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	100 2106 855 1043	86 1914 750 942	
Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >+100	100 2106 855 1043 3931	86 1914 750 942 3267	
Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method		100 2106 855 1043 3931 current	86 1914 750 942 3267 history1	   history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m	>+100	100 2106 855 1043 3931 current 5	86 1914 750 942 3267 history1 5	   history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>+100	100 2106 855 1043 3931 current 5 3	86 1914 750 942 3267 history1 5 7	   history2 
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>+100 >20	100 2106 855 1043 3931 current 5 3 2	86 1914 750 942 3267 history1 5 7 8	   history2  
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>+100 >20 limit/base	100 2106 855 1043 3931 current 5 3 2 current	86 1914 750 942 3267 history1 5 7 8 history1	   history2   history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>+100 >20 limit/base	100 2106 855 1043 3931 current 5 3 2 2 current 0	86 1914 750 942 3267 history1 5 7 8 8 history1 0	   history2   history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844	>+100 >20 limit/base >20	100 2106 855 1043 3931 current 5 3 2 2 current 0 7.4	86 1914 750 942 3267 history1 5 7 8 history1 0 7.0	  history2   history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D51854 *ASTM D7844 *ASTM D7844	>+100 >20 limit/base >20 >30	100 2106 855 1043 3931 current 5 3 2 current 0 7.4 17.2	86 1914 750 942 3267 history1 5 7 8 history1 0 7.0 16.8	  history2  history2  history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7844 *ASTM D7844 *ASTM D7624	>+100 >20 limit/base >20 >30 limit/base	100 2106 855 1043 3931 current 5 3 2 current 0 7.4 17.2 current	86 1914 750 942 3267 history1 5 7 8 history1 0 7.0 16.8 history1	  history2  history2  history2   history2



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# **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	
4.00 Puel	Appearance	scalar	*Visual	NORML	NORML	NORML	
i.	Odor	scalar	*Visual	NORML	NORML	NORML	
°C	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
	Free Water	scalar	*Visual		NEG	NEG	
	FLUID PROPER	TIES	method	limit/base	current	history1	history2
	Visc @ 100°C	cSt	ASTM D445		12.7	13.0	
	GRAPHS						
	Ferrous Alloys						
	Non-ferrous Meta	ls		Jan 9,24			
	0	~		Ja L			
	Viscosity @ 100°C			4.5	Base Number		
	17- Abnormal			4.5			
	16-						
				(0,3.5 HOX 3.0 E 2.5 deg 2.0 N 32 1.5 E 1.0			
	() 15 () 15 () 14			<u> </u>			
	12			N. 1.5			
	13 - Abnormal			en 1.0			
	12-			0.5	•		
	11			0.0	53		24 +
	Sep29/23			Jan 9/24	Sep 29/23		Jan 9/24
Laboratory Sample No. Lab Number Unique Number Certificate 12367 To discuss this sample report, * - Denotes test methods that	: 06073672 ar : 10850349 e : CONST ( Additiona c, contact Customer Serv r are outside of the ISO 1	Recieved Diagnose Diagnose I Tests: T vice at 1-8 17025 sco	d : 30 . ed : 30 . tician : We BN ) 200-237-1369 ope of accrea	Jan 2024 Jan 2024 s Davis 9. <i>litation.</i>	Apple \	3 Contact: Se	SEW Location 09 Salina Road Sewell, NJ US 08080 ervice Manager T:
Statements of conformity to spe	ecilications are based on t	uie simple	acceptance (	Jecision l'ule (J	IGGINI 106:2012)		F:

Contact/Location: Service Manager - AVWSEW