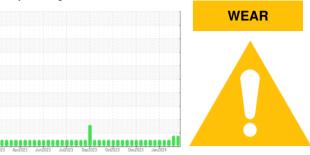


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# **LGS00180**

Middle Biogas Engine

CITGO PACEMAKER GAS ENGINE LFG LA

### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

### Wear

The nickel level is abnormal. All other component wear rates are normal.

### Contamination

There is no indication of any contamination in the

#### **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.

40 ( GAL)		и2023 Apr20	23 Jun2023 Jul2023	Sep2023 Oct2023 Dec2023	Jan 2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0803466	WC0803465	WC0803454
Sample Date		Client Info		24 May 2024	20 May 2024	05 Feb 2024
Machine Age	hrs	Client Info		61569	61477	61379
Dil Age	hrs	Client Info		190	98	247
Dil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
uel		WC Method	>4.0	<1.0	<1.0	<1.0
Vater		WC Method	>0.1	NEG	NEG	NEG
Slycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>45	14	14	0
Chromium	ppm	ASTM D5185m	>2	1	<1	0
lickel	ppm	ASTM D5185m	>2	<u> </u>	<u>4</u>	0
itanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>5	1	<1	0
luminum	ppm	ASTM D5185m	>10	2	2	<1
ead	ppm	ASTM D5185m	>5	<1	<1	1
Copper	ppm	ASTM D5185m	>14	2	2	<1
in	ppm	ASTM D5185m	>13	4	3	1
anadium	ppm	ASTM D5185m		<1	<1	0
admium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	2	2
arium	ppm	ASTM D5185m		0	0	0
Nolybdenum	ppm	ASTM D5185m		4	4	2
1anganese	ppm	ASTM D5185m		<1	<1	<1
1agnesium	ppm	ASTM D5185m		31	35	20
alcium	ppm	ASTM D5185m		1328	1402	1308
hosphorus	ppm	ASTM D5185m		284	313	232
linc	ppm	ASTM D5185m		337	375	333
ulfur	ppm	ASTM D5185m		3340	3307	2598
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>200	155	116	78
Sodium	ppm	ASTM D5185m		<1	0	<1
otassium	ppm	ASTM D5185m	>20	2	2	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0	0.1
	Abs/cm	*ASTM D7624	>20	3.2	4.6	10.2
litration	ADS/CITI					
	Abs/.1mm	*ASTM D7415	>30	15.7	16.7	20.1
	Abs/.1mm	*ASTM D7415 method	>30 limit/base	15.7 current	16.7 history1	20.1 history2
sulfation FLUID DEGRADA	Abs/.1mm					
Sulfation	Abs/.1mm	method	limit/base	current	history1	history2



## OIL ANALYSIS REPORT







Certificate 12367

Sample No. Lab Number : 06194228

: WC0803466 Unique Number : 11056351 Test Package : MOB 2

Received : 29 May 2024 **Tested** : 30 May 2024 Diagnosed : 31 May 2024 - Angela Borella

US 65667 Contact: CHIP MATHEWS chip.mattews@cubedistrictenergy.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.  $^st$  - 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:

HARTVILLE, MO