

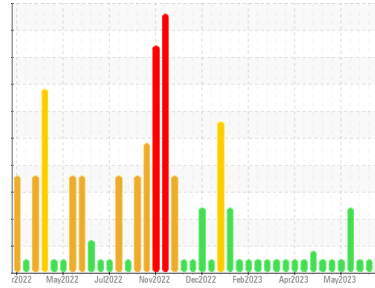


# OIL ANALYSIS REPORT



Machine Id  
**LIDM04BE (S/N GZJ00279)**  
 Component  
**Biogas Engine**  
 Fluid  
**CHEVRON HDAX 6500 LFG GAS ENGINE OIL (540 LTR)**

Sample Rating Trend



**NORMAL**



## DIAGNOSIS

### Recommendation

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

### Wear

Les taux d'usure de tous les composants sont normaux.

### Contamination

Il n'y a aucun indice de contamination dans l'huile.

### Fluid Condition

Le résultat pour le BN indique que la réserve d'alcalinité est acceptable pour l'huile. Le AN est acceptable pour ce fluide. L'état de l'huile permet d'en prolonger l'utilisation.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0817867</b>	WC0817856	WC0817833
Sample Date	Client Info		<b>12 Jun 2023</b>	05 Jun 2023	30 May 2023
Machine Age	hrs	Client Info	<b>44414</b>	44247	44103
Oil Age	hrs	Client Info	<b>419</b>	252	108
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>15	<b>3</b>	2	2
Chromium	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>6	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m)	>9	<b>5</b>	3	<1
Copper	ppm	ASTM D5185(m)	>6	<b>1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>4	<b>2</b>	1	<1
Antimony	ppm	ASTM D5185(m)		<b>4</b>	2	1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		<b>4</b>	4	3
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>5</b>	5	4
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>16</b>	16	14
Calcium	ppm	ASTM D5185(m)		<b>1998</b>	1963	1830
Phosphorus	ppm	ASTM D5185(m)		<b>296</b>	288	280
Zinc	ppm	ASTM D5185(m)		<b>322</b>	308	290
Sulfur	ppm	ASTM D5185(m)		<b>2144</b>	2013	1878
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

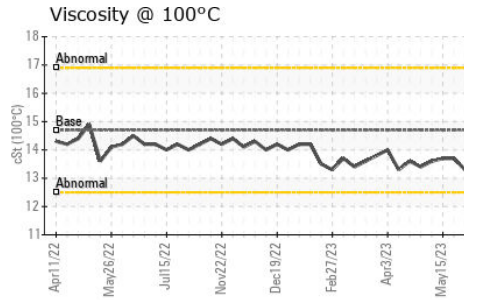
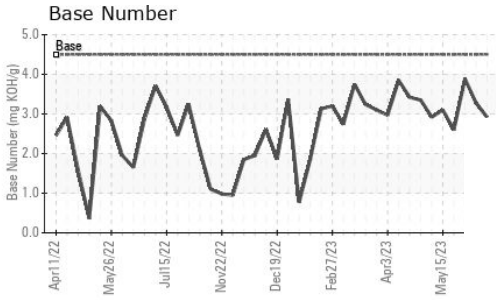
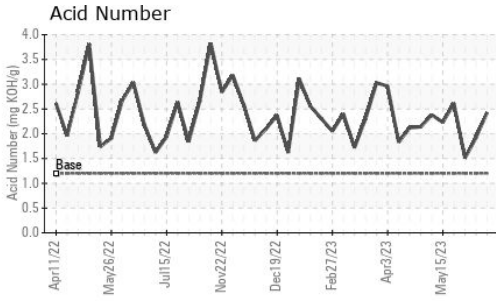
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>181	<b>100</b>	73	43
Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<b>4</b>	2	1

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>6.7</b>	6.3	5.6
Sulfation	Abs/1mm	ASTM D7415*	>30	<b>22.7</b>	20.5	18.0



# OIL ANALYSIS REPORT

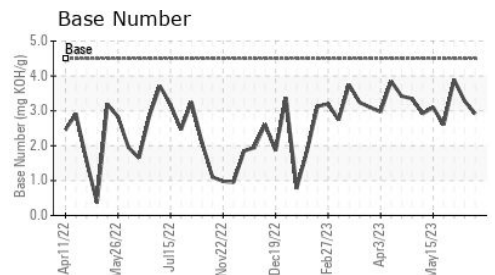
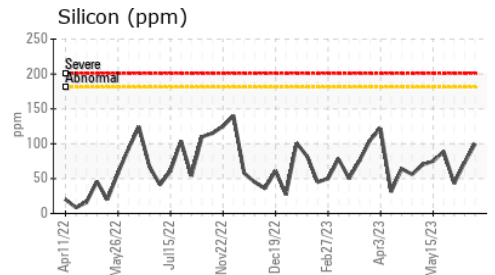
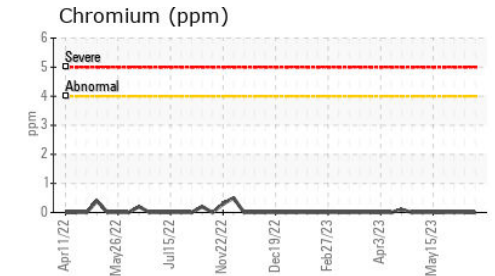
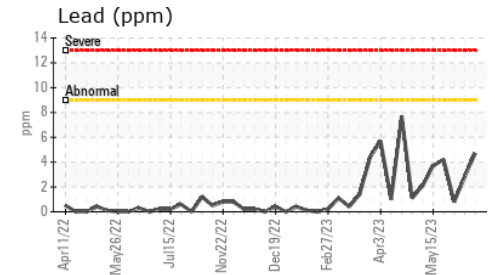
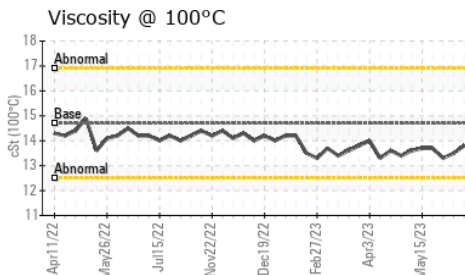
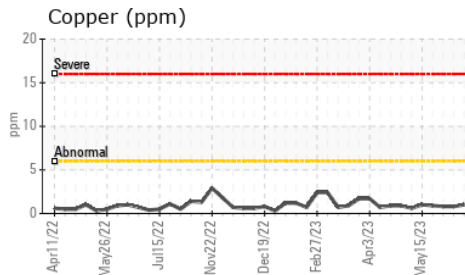
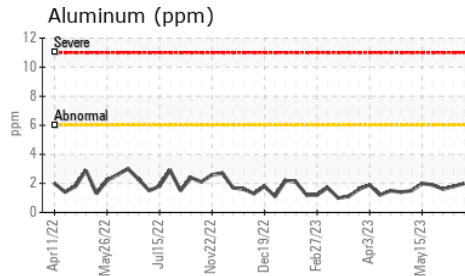
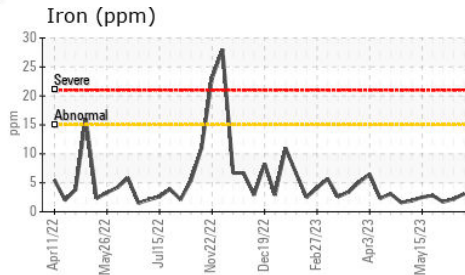


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	17.6	14.8	10.6
Acid Number (AN)	mg KOH/g	ASTM D974*	1.2	2.43	1.92	1.51
Base Number (BN)	mg KOH/g	ASTM D2896*	4.5	2.92	3.28	3.89
i-pH	Scale 0-14	ASTM D7946*	<4.5	5.07	5.46	5.54

VISUAL	method	limit/base	current	history1	history2	
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	14.7	13.8	13.5	13.3

## GRAPHS



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0817867 **Received** : 13 Jun 2023  
**Lab Number** : 02563829 **Diagnosed** : 14 Jun 2023  
**Unique Number** : 5592870 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 2 ( Additional Tests: i-pH, TAN Auto, TAN Man )

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.

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