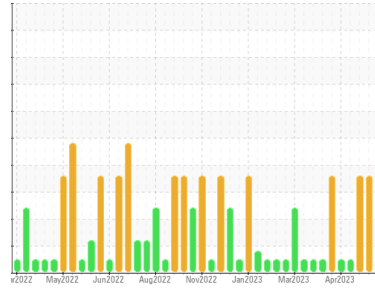




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**LIDM03BE (S/N GZJ-00163)**  
 Component  
**Biogas Engine**  
 Fluid  
**CHEVRON HDAX 6500 LFG GAS ENGINE OIL (540 LTR)**

## 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>WC0817851</b>	WC0772242	WC0772273
Sample Date	Client Info		<b>15 May 2023</b>	08 May 2023	03 May 2023
Machine Age	hrs	Client Info	<b>36840</b>	36823	36714
Oil Age	hrs	Client Info	<b>9</b>	433	324
Oil Changed	Client Info		<b>Not Changed</b>	Changed	Not Changed
Sample Status			<b>NORMAL</b>	ABNORMAL	ABNORMAL

## 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>5</b>	5	4
Chromium	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	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>1</b>	2	2
Lead	ppm	ASTM D5185(m)	>9	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>6	<b>&lt;1</b>	1	<1
Tin	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	2	2
Antimony	ppm	ASTM D5185(m)		<b>&lt;1</b>	5	4
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>6</b>	2	2
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>6</b>	<1	<1
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>14</b>	10	10
Calcium	ppm	ASTM D5185(m)		<b>1727</b>	1969	1930
Phosphorus	ppm	ASTM D5185(m)		<b>263</b>	290	286
Zinc	ppm	ASTM D5185(m)		<b>278</b>	321	311
Sulfur	ppm	ASTM D5185(m)		<b>1345</b>	2854	2671
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

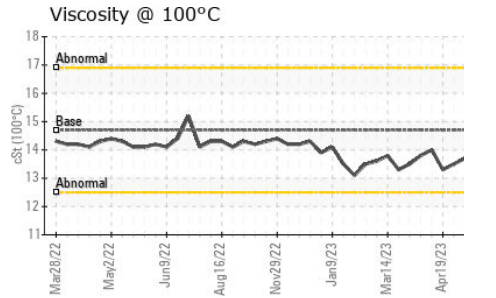
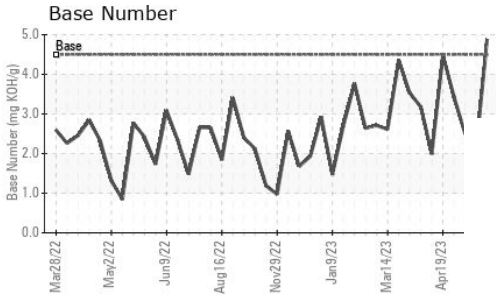
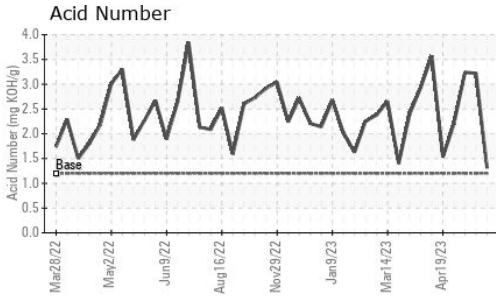
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>181	<b>19</b>	120	105
Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	2	<1
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	4	<1

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>4.9</b>	6.5	6.5
Sulfation	Abs/1mm	ASTM D7415*	>30	<b>15.8</b>	25.9	24.1



# OIL ANALYSIS REPORT

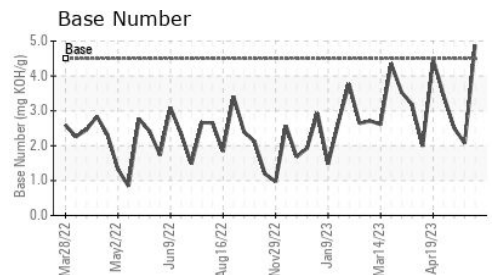
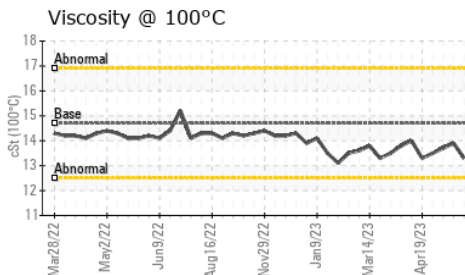
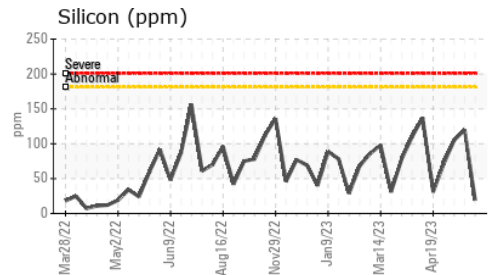
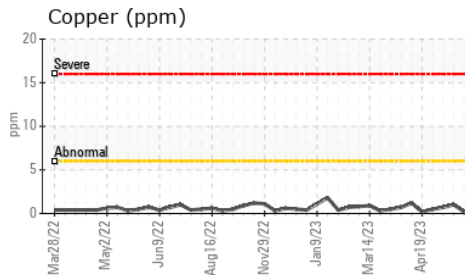
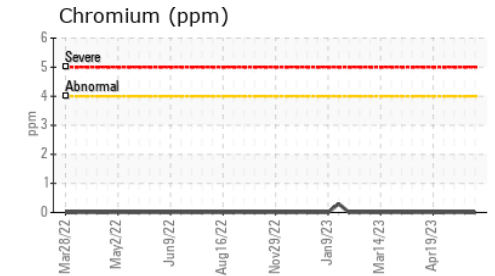
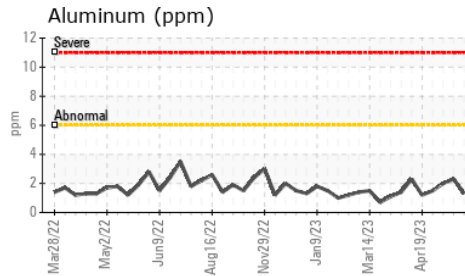
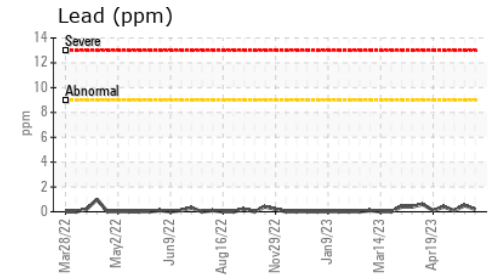
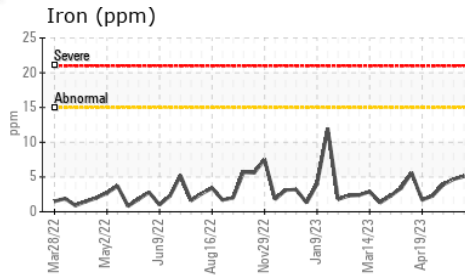


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>8.0</b>	18.9	17.4
Acid Number (AN)	mg KOH/g	ASTM D974*	1.2	<b>1.31</b>	▲ 3.22	▲ 3.24
Base Number (BN)	mg KOH/g	ASTM D2896*	4.5	<b>4.88</b>	▲ 2.07	▲ 2.51
i-pH	Scale 0-14	ASTM D7946*	<4.5	<b>6.58</b>	▲ 3.76	▲ 3.92

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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	14.7	<b>13.3</b>	13.9	13.7

## GRAPHS



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0817851 **Received** : 17 May 2023  
**Lab Number** : 02558025 **Diagnosed** : 18 May 2023  
**Unique Number** : 5579065 **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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