

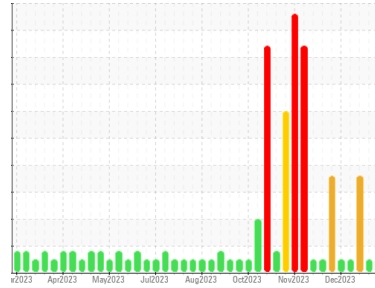


# OIL ANALYSIS REPORT



Machine Id  
**LIDM02BE (S/N GZJ00681)**  
 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>WC0874457</b>	WC0874466	WC0874469
Sample Date	Client Info		<b>15 Jan 2024</b>	08 Jan 2024	02 Jan 2024
Machine Age	hrs	Client Info	<b>7609</b>	7442	7359
Oil Age	hrs	Client Info	<b>233</b>	66	601
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Changed
Sample Status			<b>NORMAL</b>	NORMAL	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>15	<b>6</b>	4	6
Chromium	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
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>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>6	<b>2</b>	2	1
Tin	ppm	ASTM D5185(m)	>4	<b>1</b>	<1	2
Antimony	ppm	ASTM D5185(m)		<b>2</b>	<1	2
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>5</b>	6	4
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>2</b>	2	2
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)		<b>16</b>	16	15
Calcium	ppm	ASTM D5185(m)		<b>1717</b>	1655	1768
Phosphorus	ppm	ASTM D5185(m)		<b>258</b>	244	259
Zinc	ppm	ASTM D5185(m)		<b>295</b>	289	308
Sulfur	ppm	ASTM D5185(m)		<b>2383</b>	1763	3139
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

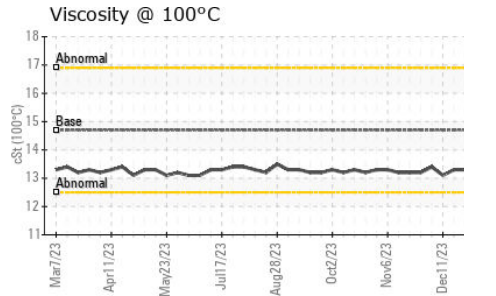
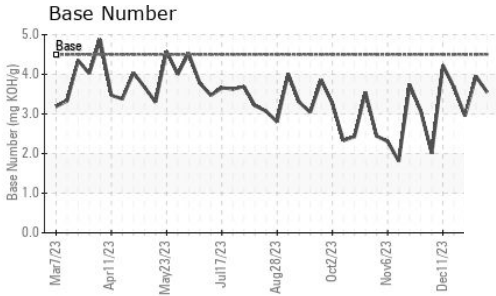
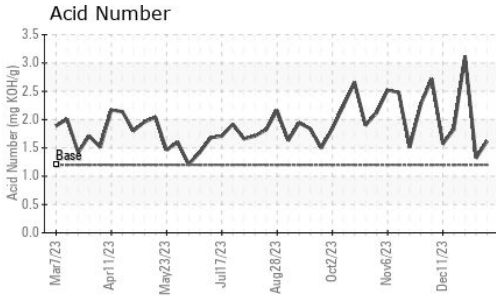
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>181	<b>61</b>	37	90
Sodium	ppm	ASTM D5185(m)		<b>6</b>	9	<1
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	2	3

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>5.0</b>	5.0	5.2
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>19.5</b>	17.2	23.0



# OIL ANALYSIS REPORT

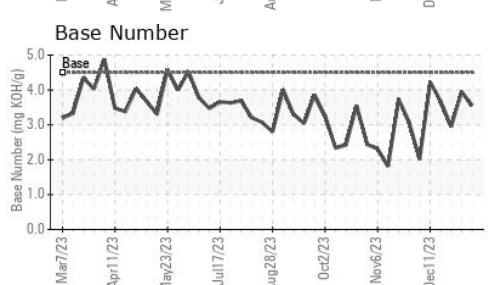
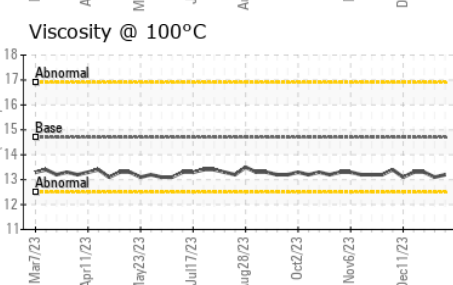
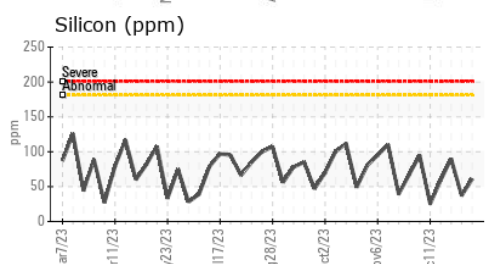
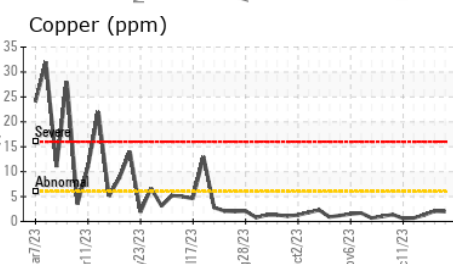
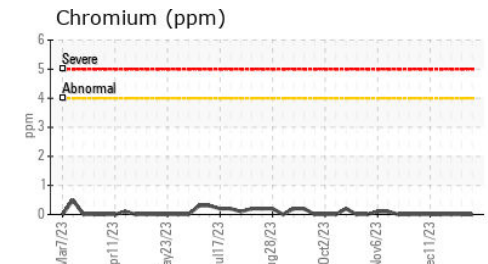
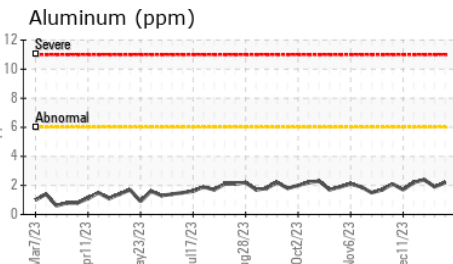
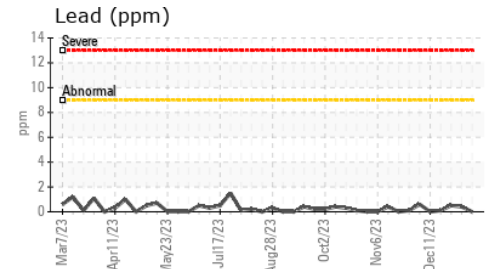
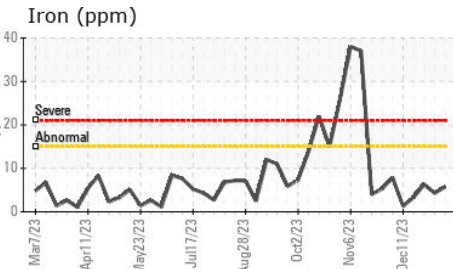


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>9.5</b>	8.2	12.1
Acid Number (AN)	mg KOH/g	ASTM D974*	1.2	<b>1.62</b>	1.32	▲ 3.12
Base Number (BN)	mg KOH/g	ASTM D2896*	4.5	<b>3.55</b>	3.95	▲ 2.95
i-pH	Scale 0-14	ASTM D7946*	<4.5	<b>5.50</b>	5.34	▲ 4.38

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>13.2</b>	13.1	13.3

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0874457 **Received** : 17 Jan 2024  
**Lab Number** : **02609284** **Diagnosed** : 23 Jan 2024  
**Unique Number** : 5710370 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 2 ( Additional Tests: i-pH, TAN Auto )

**EDL NA Recips-Lydia**  
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 Contact: Eloi Legault  
 eloi.legault@energydi.com  
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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.