

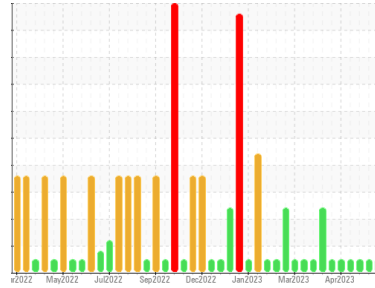


# OIL ANALYSIS REPORT



Machine Id  
**LIDM05BE (S/N GZJ00188A)**  
 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>WC0817839</b>	WC0817849	WC0772270
Sample Date	Client Info		<b>23 May 2023</b>	15 May 2023	08 May 2023
Machine Age	hrs	Client Info	<b>24925</b>	24736	24572
Oil Age	hrs	Client Info	<b>168</b>	703	539
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>1</b>	2	3
Chromium	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<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>1</b>	2	2
Lead	ppm	ASTM D5185(m)	>9	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>6	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>4	<b>1</b>	1	2
Antimony	ppm	ASTM D5185(m)		<b>2</b>	2	3
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>	5	2
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>6</b>	5	<1
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>15</b>	14	10
Calcium	ppm	ASTM D5185(m)		<b>1854</b>	1842	1883
Phosphorus	ppm	ASTM D5185(m)		<b>274</b>	273	281
Zinc	ppm	ASTM D5185(m)		<b>290</b>	291	291
Sulfur	ppm	ASTM D5185(m)		<b>2002</b>	1858	2159
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

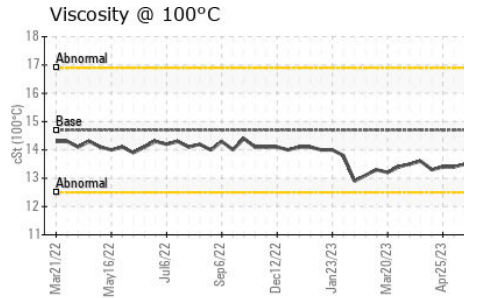
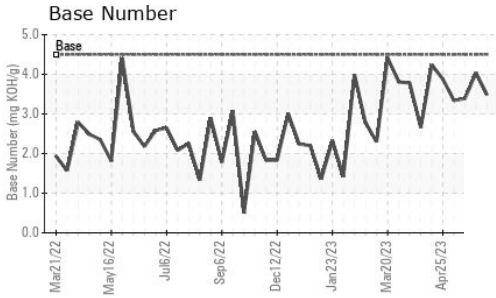
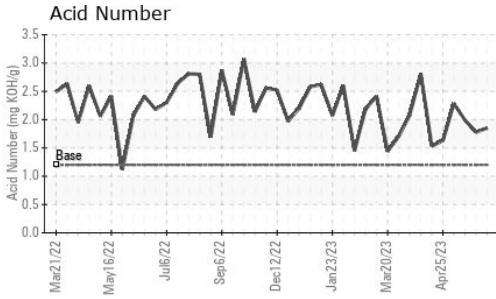
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>181	<b>57</b>	59	77
Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	<1
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>5.5</b>	5.3	5.6
Sulfation	Abs/1mm	ASTM D7415*	>30	<b>19.1</b>	18.6	20.3



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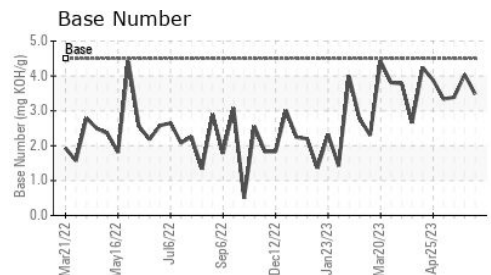
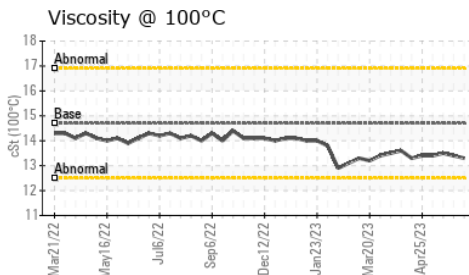
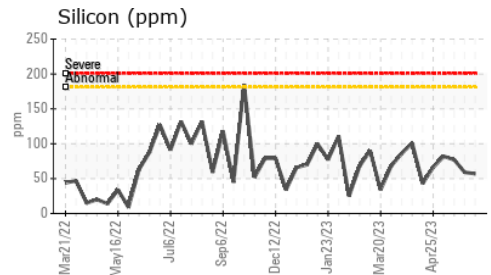
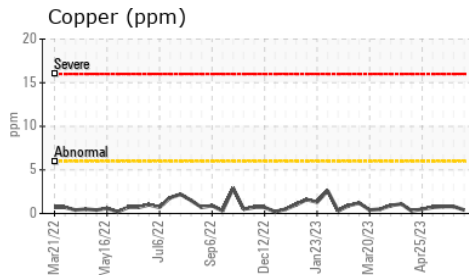
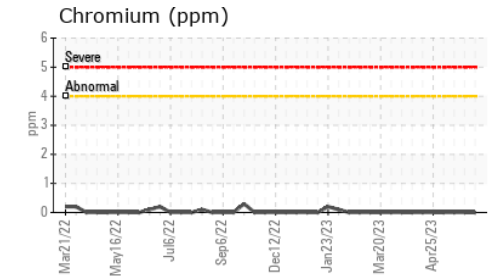
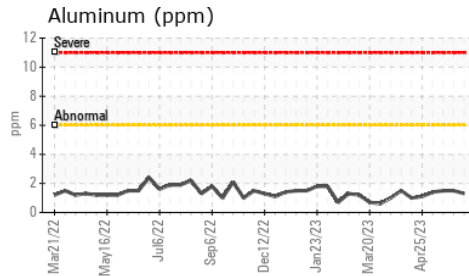
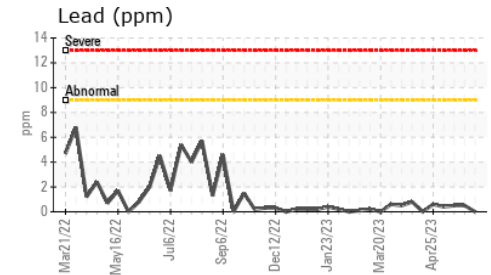
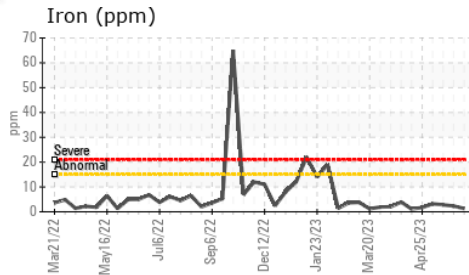


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>11.0</b>	9.8	11.6
Acid Number (AN)	mg KOH/g	ASTM D974*	1.2	<b>1.85</b>	1.78	1.99
Base Number (BN)	mg KOH/g	ASTM D2896*	4.5	<b>3.48</b>	4.04	3.39
i-pH	Scale 0-14	ASTM D7946*	<4.5	<b>5.24</b>	5.77	5.39

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>	13.4	13.5

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0817839 **Received** : 24 May 2023  
**Lab Number** : **02559224** **Diagnosed** : 26 May 2023  
**Unique Number** : 5580264 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 2 ( Additional Tests: i-pH, TAN Auto, TAN Man )

**EDL NA Recips-Lydia**  
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 LACHUTE, QC  
 CA J8H 2C5  
 Contact: Eloi Legault  
 eloi.legault@energydi.com  
 T: (450)526-4001  
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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.