

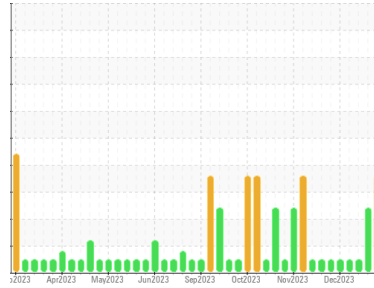


# OIL ANALYSIS REPORT



Machine Id  
**LIDM07BE (S/N GZJ00166)**  
 Component  
**Biogas Engine**  
 Fluid  
**CHEVRON HDAX 9500 GAS ENGINE OIL 40 (540 LTR)**

Sample Rating Trend



PH



## DIAGNOSIS

### Recommendation

Nous vous recommandons de vidanger l'huile de ce composant si vous ne l'avez pas déjà fait. 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 niveau de i-pH est anormalement bas. Le niveau de AN est supérieur à la limite recommandée. Le niveau de BN est inférieur à la normale. l'huile ne peut plus être utilisée.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0874485</b>	WC0874462	WC0874478
Sample Date	Client Info		<b>22 Jan 2024</b>	15 Jan 2024	08 Jan 2024
Machine Age	Client Info		<b>101507</b>	26459	26292
Oil Age	Client Info		<b>513</b>	448	281
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status			<b>ABNORMAL</b>	ABNORMAL	NORMAL

## 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>9</b>	5	4
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>4</b>	4	3
Lead	ppm ASTM D5185(m)	>9	<b>&lt;1</b>	<1	<1
Copper	ppm ASTM D5185(m)	>6	<b>2</b>	1	1
Tin	ppm ASTM D5185(m)	>4	<b>3</b>	2	1
Antimony	ppm ASTM D5185(m)		<b>3</b>	3	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>4</b>	4	4
Barium	ppm ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm ASTM D5185(m)		<b>1</b>	1	1
Manganese	ppm ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm ASTM D5185(m)		<b>17</b>	18	18
Calcium	ppm ASTM D5185(m)		<b>1851</b>	1848	1701
Phosphorus	ppm ASTM D5185(m)		<b>268</b>	268	252
Zinc	ppm ASTM D5185(m)		<b>321</b>	317	297
Sulfur	ppm ASTM D5185(m)		<b>3076</b>	3022	2624
Lithium	ppm ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

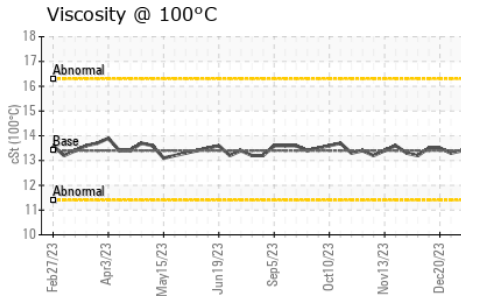
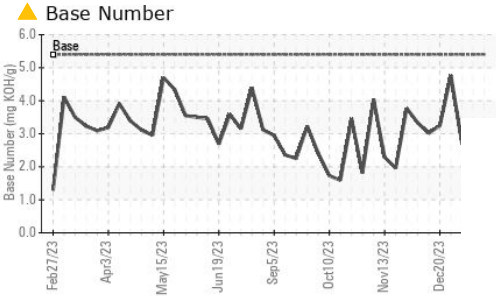
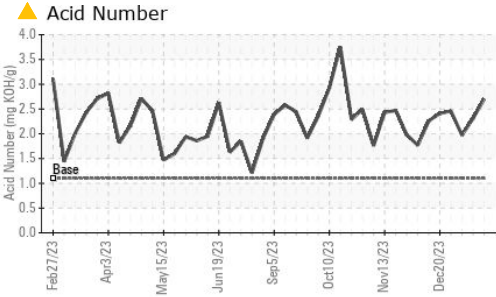
	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m)	>181	<b>118</b>	96	72
Sodium	ppm ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Potassium	ppm ASTM D5185(m)	>20	<b>2</b>	2	2

## 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>	5.5	5.3
Sulfation	Abs./1mm ASTM D7415*	>30	<b>23.7</b>	23.8	21.8



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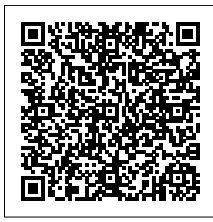
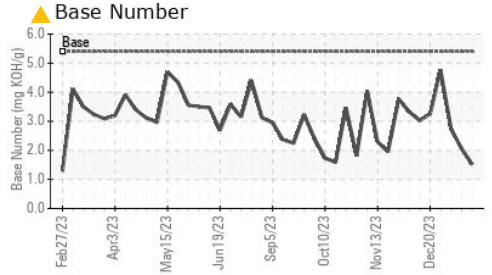
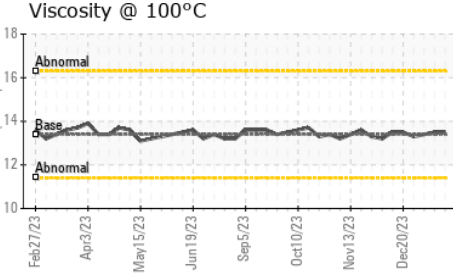
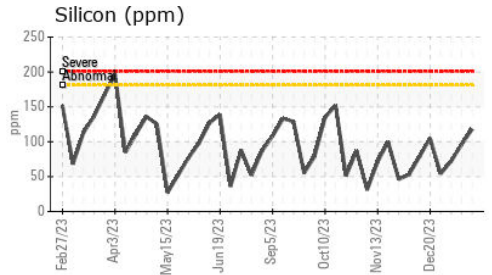
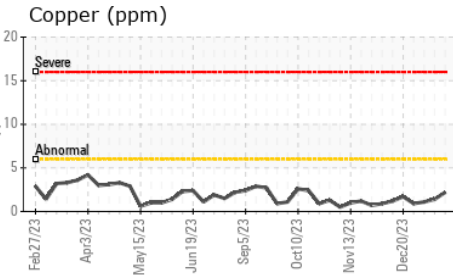
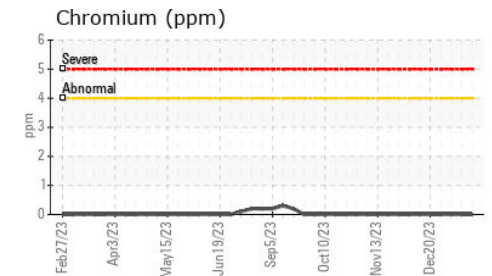
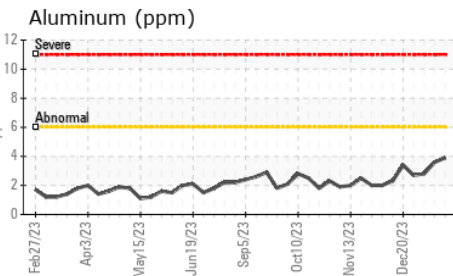
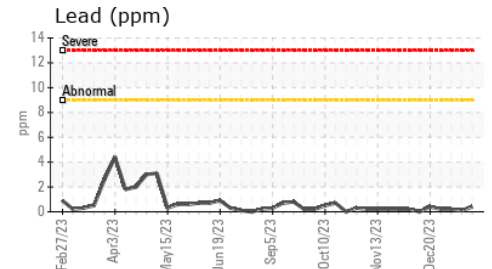
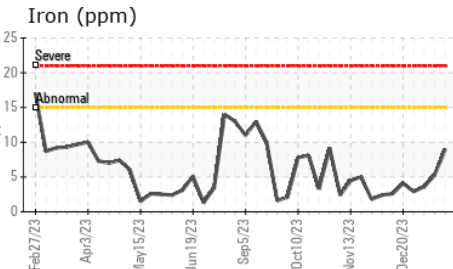


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>12.8</b>	13.1	11.7
Acid Number (AN)	mg KOH/g	ASTM D974*	1.1	<b>▲ 2.70</b>	▲ 2.31	1.97
Base Number (BN)	mg KOH/g	ASTM D2896*	5.4	<b>▲ 1.52</b>	▲ 2.06	2.72
i-pH	Scale 0-14	ASTM D7946*	<4.5	<b>▲ 4.44</b>	4.77	4.61

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)	13.4	<b>13.5</b>	13.5	13.4

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0874485 **Received** : 23 Jan 2024  
**Lab Number** : 02610555 **Diagnosed** : 26 Jan 2024  
**Unique Number** : 5711641 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 2 ( Additional Tests: i-pH, TAN Auto, TAN Man )

**EDL NA Recips-Lydia**  
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 CA J8H 2C5  
 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.