

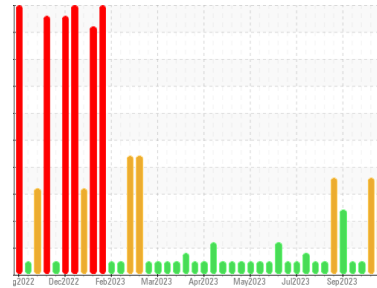


# OIL ANALYSIS REPORT



Machine Id  
**LIDM07BE (S/N GZJ00166)**  
 Component  
**Biogas Engine**  
 Fluid  
**CHEVRON HDAX 6500 LFG GAS ENGINE OIL (540 LTR)**

Sample Rating Trend



PH



## DIAGNOSIS

### ▲ Recommendation

Nous avons pris note que la vidange d'huile a été effectuée au moment de l'échantillonnage. 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>WC0817913</b>	WC0817906	WC0772233
Sample Date	Client Info		<b>18 Oct 2023</b>	10 Oct 2023	02 Oct 2023
Machine Age	hrs	Client Info	<b>24464</b>	24273	24126
Oil Age	hrs	Client Info	<b>667</b>	476	329
Oil Changed	Client Info		<b>Changed</b>	Not Changd	Not Changd
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
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>15	<b>8</b>	8	2
Chromium	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>6	<b>2</b>	3	2
Lead	ppm	ASTM D5185(m)	>9	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>6	<b>2</b>	3	1
Tin	ppm	ASTM D5185(m)	>4	<b>2</b>	2	1
Antimony	ppm	ASTM D5185(m)		<b>5</b>	4	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>3</b>	3	3
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)		<b>2</b>	3	3
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)		<b>12</b>	9	8
Calcium	ppm	ASTM D5185(m)		<b>1936</b>	1904	1884
Phosphorus	ppm	ASTM D5185(m)		<b>258</b>	255	244
Zinc	ppm	ASTM D5185(m)		<b>328</b>	319	299
Sulfur	ppm	ASTM D5185(m)		<b>3219</b>	3157	2689
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>152</b>	135	79
Sodium	ppm	ASTM D5185(m)		<b>1</b>	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	<1	2

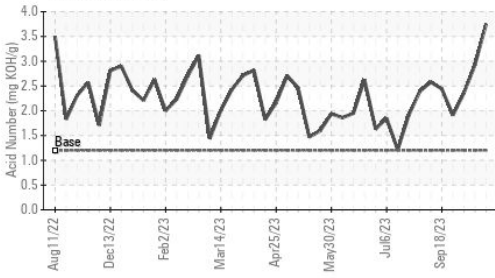
## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>5.1</b>	5.1	5.1
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>26.9</b>	25.5	22.2

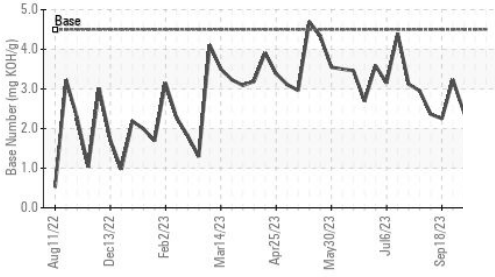


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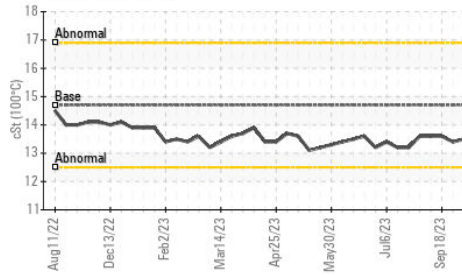
### ▲ Acid Number



### ▲ Base Number



### Viscosity @ 100°C



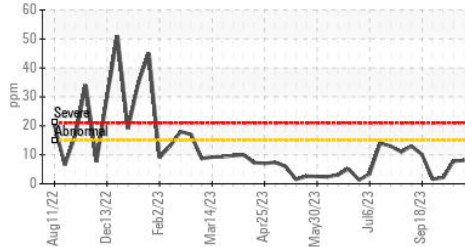
FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.8</b>	13.3	11.4
Acid Number (AN)	mg KOH/g	ASTM D974*	1.2	▲ <b>3.75</b>	▲ 2.93	2.36
Base Number (BN)	mg KOH/g	ASTM D2896*	4.5	▲ <b>1.59</b>	▲ 1.73	2.41
i-pH	Scale 0-14	ASTM D7946*	<4.5	▲ <b>3.74</b>	▲ 3.52	4.57

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

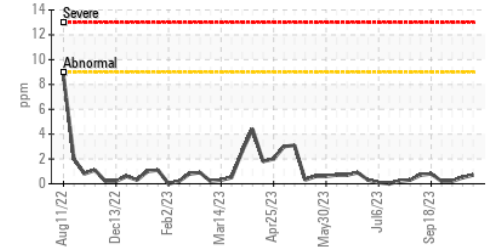
FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	14.7	<b>13.7</b>	13.6	13.5

### GRAPHS

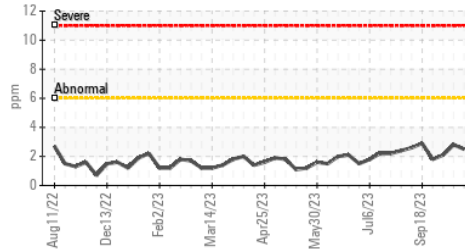
#### Iron (ppm)



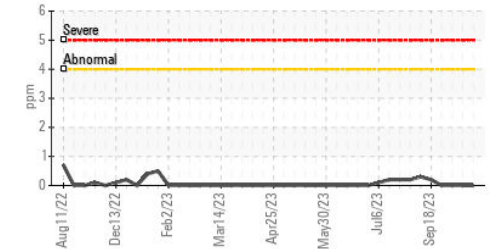
#### Lead (ppm)



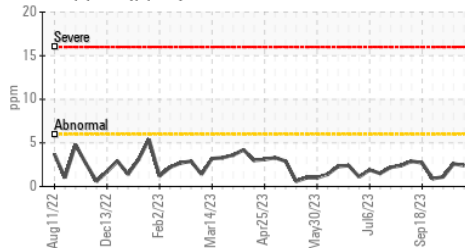
#### Aluminum (ppm)



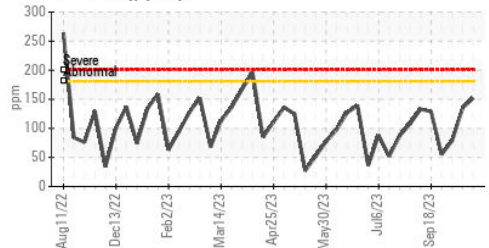
#### Chromium (ppm)



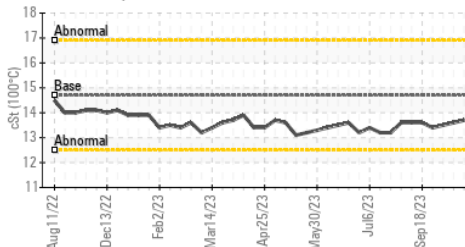
#### Copper (ppm)



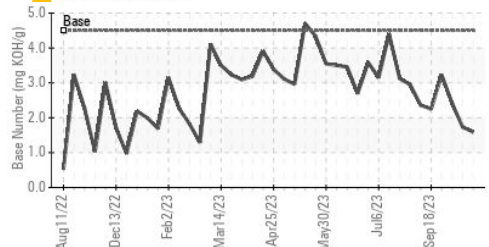
#### Silicon (ppm)



#### Viscosity @ 100°C



#### ▲ Base Number



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0817913 **Received** : 20 Oct 2023  
**Lab Number** : **02590602** **Diagnosed** : 23 Oct 2023  
**Unique Number** : 5659668 **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  
 F:

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.