

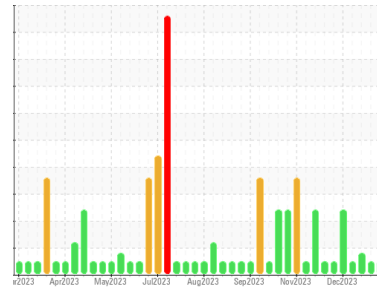


# OIL ANALYSIS REPORT



Machine Id  
**LIDM06BE (S/N G2J-00165)**  
 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>WC0874461</b>	WC0874477	WC0874473
Sample Date	Client Info		<b>15 Jan 2024</b>	08 Jan 2024	02 Jan 2024
Machine Age	hrs	Client Info	<b>25888</b>	25722	25591
Oil Age	hrs	Client Info	<b>533</b>	367	236
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status			<b>NORMAL</b>	NORMAL	ATTENTION

## 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>5</b>	5	6
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>3</b>	2	2
Lead	ppm	ASTM D5185(m)	>9	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>6	<b>3</b>	3	5
Tin	ppm	ASTM D5185(m)	>4	<b>2</b>	2	1
Antimony	ppm	ASTM D5185(m)		<b>3</b>	2	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>1822</b>	1715	1752
Phosphorus	ppm	ASTM D5185(m)		<b>266</b>	249	257
Zinc	ppm	ASTM D5185(m)		<b>312</b>	296	307
Sulfur	ppm	ASTM D5185(m)		<b>2886</b>	2539	2388
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>95</b>	77	68
Sodium	ppm	ASTM D5185(m)		<b>2</b>	2	4
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	2	2

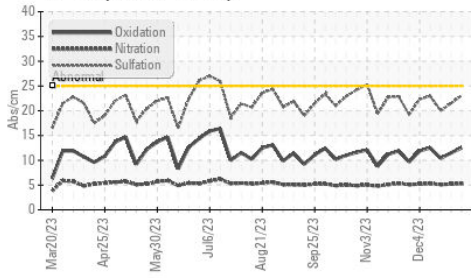
## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>5.3</b>	5.2	5.1
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>23.1</b>	21.5	20.0

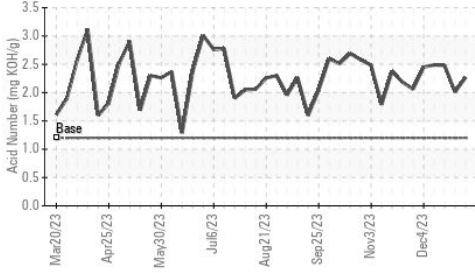


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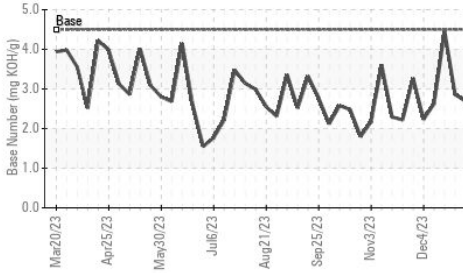
FT-IR (Direct Trend)



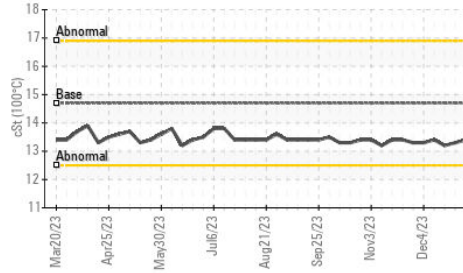
Acid Number



Base Number



Viscosity @ 100°C



**FLUID DEGRADATION**

	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>12.5</b>	11.5	10.4
Acid Number (AN)	mg KOH/g	ASTM D974*	1.2	<b>2.27</b>	2.01	2.48
Base Number (BN)	mg KOH/g	ASTM D2896*	4.5	<b>2.69</b>	2.86	4.46
i-pH	Scale 0-14	ASTM D7946*	<4.5	<b>4.89</b>	4.60	5.10

**VISUAL**

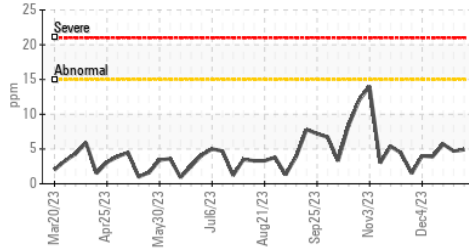
	method	limit/base	current	history1	history2	
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

**FLUID PROPERTIES**

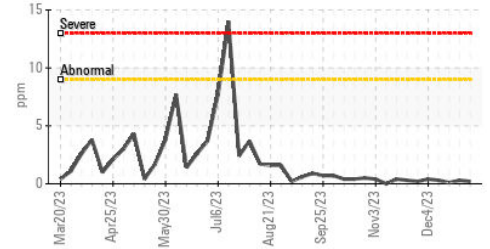
	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	14.7	<b>13.4</b>	13.3	13.2

**GRAPHS**

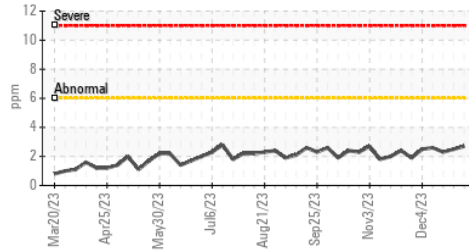
Iron (ppm)



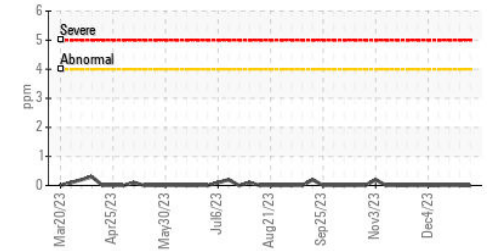
Lead (ppm)



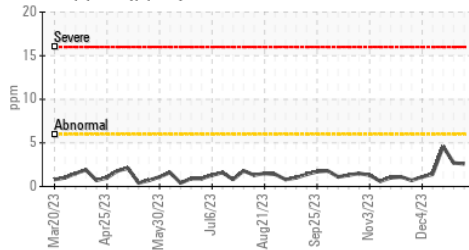
Aluminum (ppm)



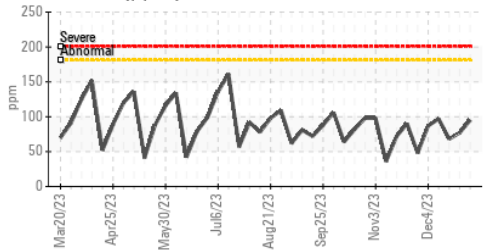
Chromium (ppm)



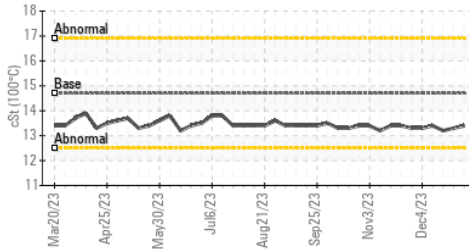
Copper (ppm)



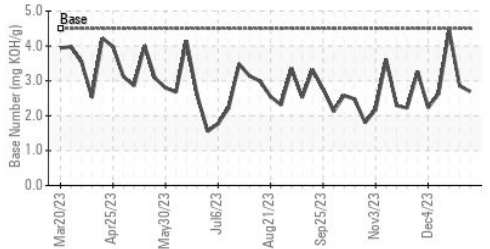
Silicon (ppm)



Viscosity @ 100°C



Base Number



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0874461 **Received** : 17 Jan 2024  
**Lab Number** : **02609286** **Tested** : 22 Jan 2024  
**Unique Number** : 5710372 **Diagnosed** : 23 Jan 2024 - Kevin Marson  
**Test Package** : MOB 2 ( Additional Tests: i-pH, TAN Auto )

**EDL NA Recips-Lydia**  
 6985 CHEMIN DES SOURCES  
 LACHUTE, QC  
 CA J8H 2C5  
 Contact: Eloi Legault  
 eloi.legault@energydy.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.