

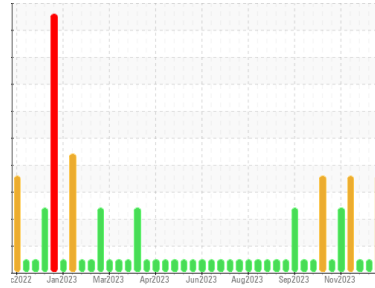


# OIL ANALYSIS REPORT



Machine Id  
**LIDM05BE (S/N GZJ00188A)**  
 Component  
**Biogas Engine**  
 Fluid  
**CHEVRON HDAX 6500 LFG GAS ENGINE OIL (540 LTR)**

Sample Rating Trend



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>WC0874374</b>	WC0874385	WC0874398
Sample Date	Client Info		<b>04 Dec 2023</b>	27 Nov 2023	20 Nov 2023
Machine Age	hrs	Client Info	<b>28045</b>	27878	27733
Oil Age	hrs	Client Info	<b>462</b>	295	150
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status			<b>ABNORMAL</b>	NORMAL	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>3</b>	3	2
Chromium	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	<1
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>	2	2
Lead	ppm	ASTM D5185(m)	>9	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185(m)	>6	<b>1</b>	1	<1
Tin	ppm	ASTM D5185(m)	>4	<b>2</b>	1	<1
Antimony	ppm	ASTM D5185(m)		<b>3</b>	2	<1
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>&lt;1</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)		<b>2</b>	2	1
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)		<b>18</b>	17	16
Calcium	ppm	ASTM D5185(m)		<b>1757</b>	1785	1768
Phosphorus	ppm	ASTM D5185(m)		<b>248</b>	250	248
Zinc	ppm	ASTM D5185(m)		<b>310</b>	292	289
Sulfur	ppm	ASTM D5185(m)		<b>2910</b>	2496	2041
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>108</b>	83	53
Sodium	ppm	ASTM D5185(m)		<b>1</b>	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	<1	<1

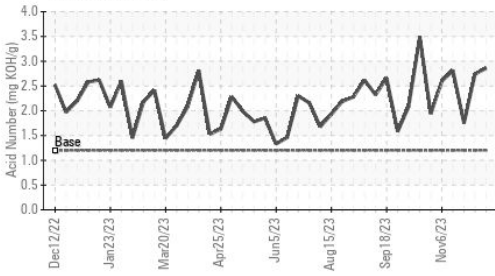
## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>5.2</b>	5.1	5.1
Sulfation	Abs.1mm	ASTM D7415*	>30	<b>24.1</b>	21.5	19.2

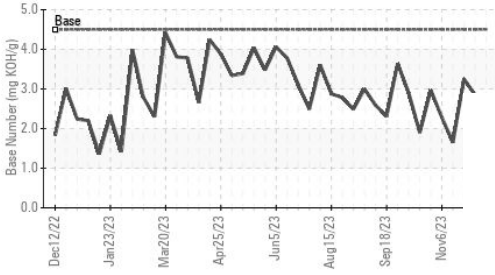


# OIL ANALYSIS REPORT

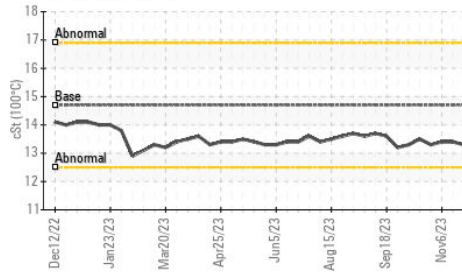
## ▲ Acid Number



## ▲ Base Number



## Viscosity @ 100°C



## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.4</b>	11.2	9.6
Acid Number (AN)	mg KOH/g	ASTM D974*	1.2	<b>▲ 2.86</b>	2.74	1.75
Base Number (BN)	mg KOH/g	ASTM D2896*	4.5	<b>▲ 2.00</b>	2.85	3.25
i-pH	Scale 0-14	ASTM D7946*	<4.5	<b>▲ 4.36</b>	5.03	5.21

## VISUAL

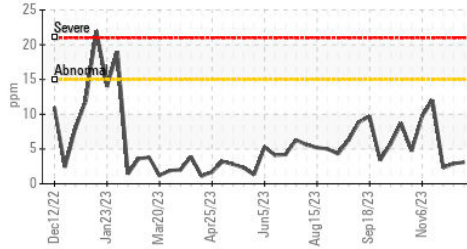
	method	limit/base	current	history1	history2	
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

## FLUID PROPERTIES

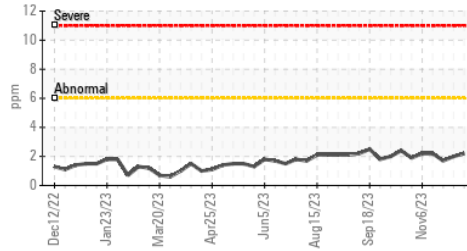
	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	14.7	<b>13.5</b>	13.4	13.3

## GRAPHS

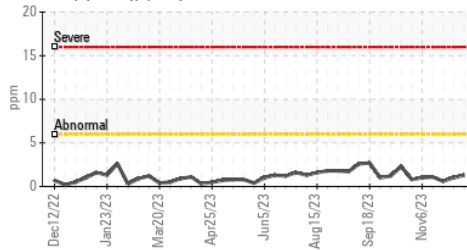
### Iron (ppm)



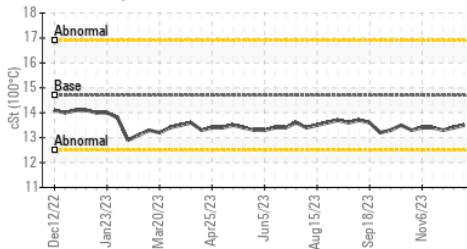
### Aluminum (ppm)



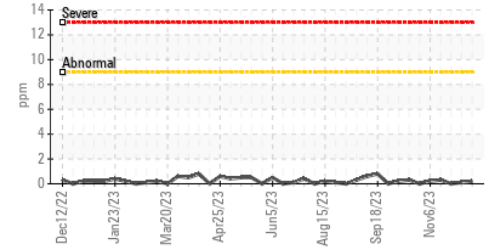
### Copper (ppm)



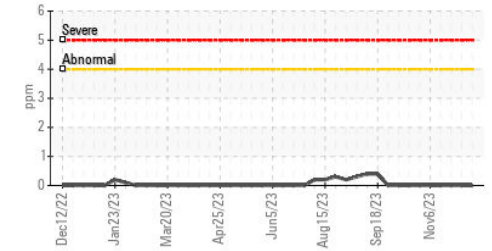
### Viscosity @ 100°C



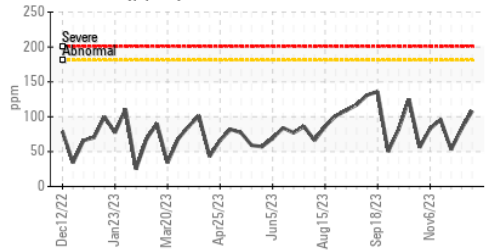
### Lead (ppm)



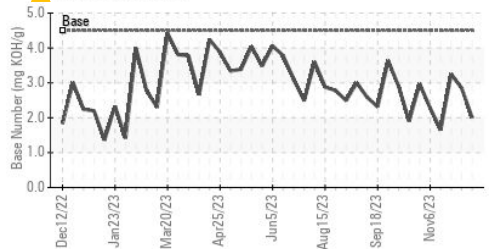
### Chromium (ppm)



### Silicon (ppm)



### ▲ Base Number



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0874374 **Received** : 05 Dec 2023  
**Lab Number** : 02600931 **Diagnosed** : 06 Dec 2023  
**Unique Number** : 5694016 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 2 ( Additional Tests: i-pH, TAN Auto, TAN Man )

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.

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