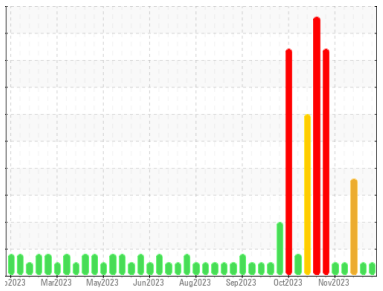
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
LIDM02BE (S/N GZJ00681)
Component
Biogas Engine
Fluid
CHEVRON HDAX 6500 LFG GAS ENGINE OIL (540 LTR)

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		**WC0874382**	WC0874380	WC0874393
Sample Date		Client Info		**20 Dec 2023**	11 Dec 2023	04 Dec 2023
Machine Age	hrs	Client Info		**70221**	70008	6663
Oil Age	hrs	Client Info		**287**	74	451
Oil Changed		Client Info		**Changed**	Changed	Not Changd
Sample Status				**NORMAL**	NORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	**<1.0**	<1.0	<1.0
Water		WC Method	>0.1	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>15	**3**	1	8
Chromium	ppm	ASTM D5185(m)	>4	**0**	0	0
Nickel	ppm	ASTM D5185(m)	>2	**<1**	0	<1
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)	>5	**0**	<1	<1
Aluminum	ppm	ASTM D5185(m)	>6	**2**	2	2
Lead	ppm	ASTM D5185(m)	>9	**<1**	0	<1
Copper	ppm	ASTM D5185(m)	>6	**<1**	<1	1
Tin	ppm	ASTM D5185(m)	>4	**<1**	0	2
Antimony	ppm	ASTM D5185(m)		**<1**	0	2
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

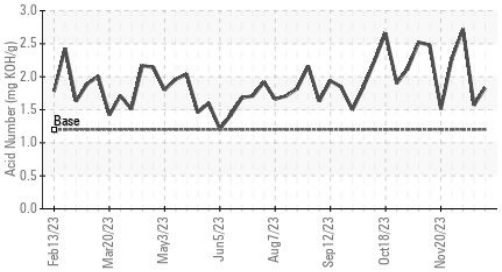
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**5**	5	4
Barium	ppm	ASTM D5185(m)		**0**	<1	<1
Molybdenum	ppm	ASTM D5185(m)		**2**	3	2
Manganese	ppm	ASTM D5185(m)		**0**	0	0
Magnesium	ppm	ASTM D5185(m)		**13**	14	16
Calcium	ppm	ASTM D5185(m)		**1739**	1689	1674
Phosphorus	ppm	ASTM D5185(m)		**254**	243	243
Zinc	ppm	ASTM D5185(m)		**296**	293	290
Sulfur	ppm	ASTM D5185(m)		**2472**	1720	2811
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>181	**59**	25	95
Sodium	ppm	ASTM D5185(m)		**<1**	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	**3**	<1	2

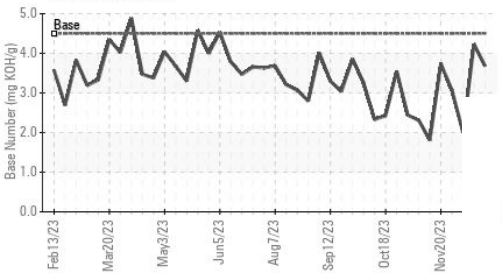
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		**0**	0	0
Nitration	Abs/cm	ASTM D7624*	>20	**5.1**	4.9	5.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	**19.8**	16.8	22.8

OIL ANALYSIS REPORT

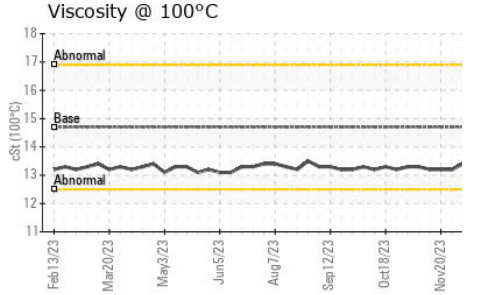
Acid Number



Base Number



Viscosity @ 100°C



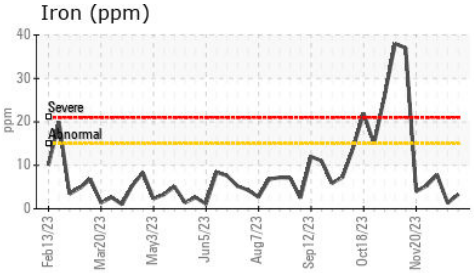
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**10.1**	8.3	12.0
Acid Number (AN)	mg KOH/g	ASTM D974*	1.2	**1.83**	1.57	▲ 2.72
Base Number (BN)	mg KOH/g	ASTM D2896*	4.5	**3.68**	4.23	▲ 2.01
i-pH	Scale 0-14	ASTM D7946*	<4.5	**5.96**	6.09	▲ 4.32

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

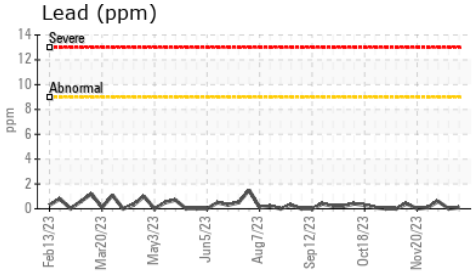
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.7	**13.3**	13.1	13.4

GRAPHS

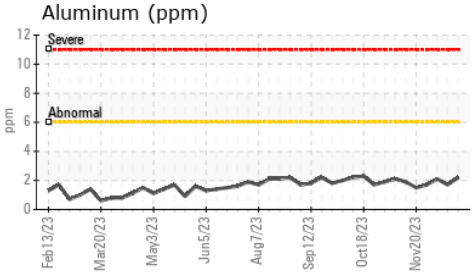
Iron (ppm)



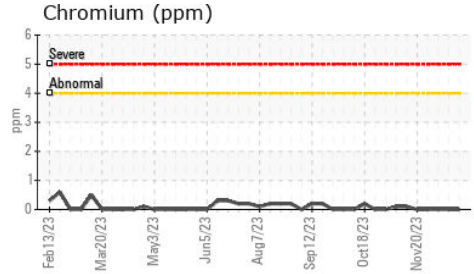
Lead (ppm)



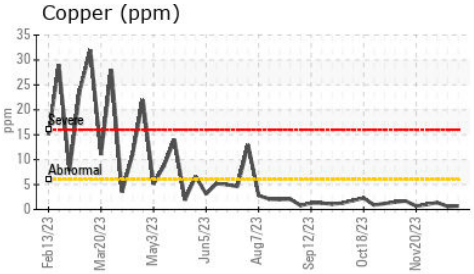
Aluminum (ppm)



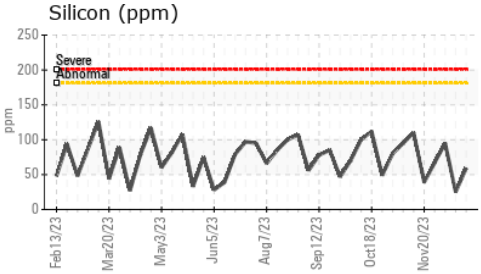
Chromium (ppm)



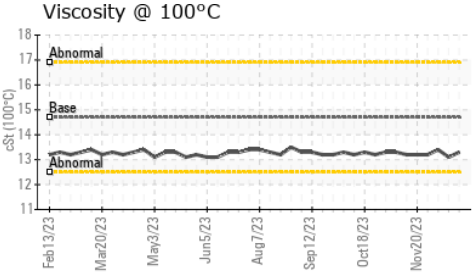
Copper (ppm)



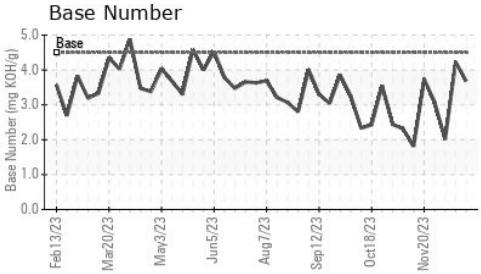
Silicon (ppm)



Viscosity @ 100°C



Base Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0874382 **Recieved** : 27 Dec 2023
Lab Number : 02605274 **Diagnosed** : 28 Dec 2023
Unique Number : 5698359 **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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Report Id: LYDLAC [WCAMIS] 02605274 (Generated: 12/28/2023 13:41:53) Rev: 1

Submitted By: Simon Giroux