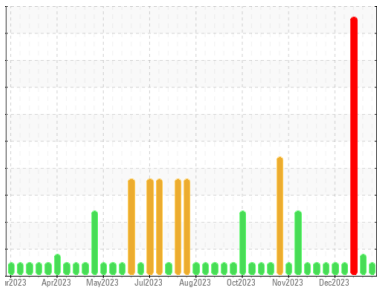
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
LIDM04BE (S/N GZJ00279)
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		**WC0874459**	WC0874475	WC0874471
Sample Date		Client Info		**15 Jan 2024**	08 Jan 2024	02 Jan 2024
Machine Age	hrs	Client Info		**48335**	48224	48151
Oil Age	hrs	Client Info		**111**	232	159
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**NORMAL**	ABNORMAL	SEVERE

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	▲ 0.013

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>15	**4**	8	9
Chromium	ppm	ASTM D5185(m)	>4	**0**	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	**0**	0	<1
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)	>5	**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>6	**2**	2	3
Lead	ppm	ASTM D5185(m)	>9	**<1**	▲ 11	▲ 14
Copper	ppm	ASTM D5185(m)	>6	**2**	3	4
Tin	ppm	ASTM D5185(m)	>4	**1**	1	2
Antimony	ppm	ASTM D5185(m)		**<1**	1	<1
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

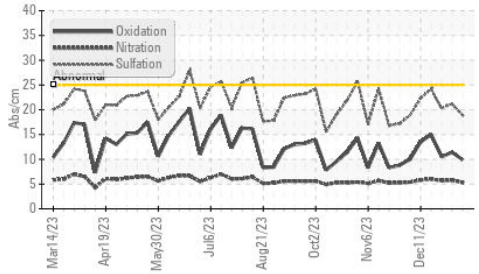
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**4**	18	23
Barium	ppm	ASTM D5185(m)		**0**	0	0
Molybdenum	ppm	ASTM D5185(m)		**1**	13	16
Manganese	ppm	ASTM D5185(m)		**0**	0	0
Magnesium	ppm	ASTM D5185(m)		**14**	19	18
Calcium	ppm	ASTM D5185(m)		**1715**	1667	1737
Phosphorus	ppm	ASTM D5185(m)		**260**	248	265
Zinc	ppm	ASTM D5185(m)		**296**	300	314
Sulfur	ppm	ASTM D5185(m)		**2300**	2758	2768
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>181	**42**	60	54
Sodium	ppm	ASTM D5185(m)		**6**	82	● 111
Potassium	ppm	ASTM D5185(m)	>20	**1**	3	4

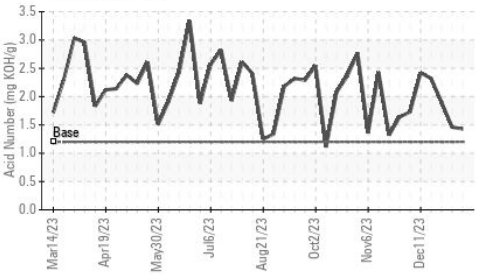
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		**0**	0	0
Nitration	Abs/cm	ASTM D7624*	>20	**5.3**	5.8	5.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	**18.9**	21.2	20.3

OIL ANALYSIS REPORT

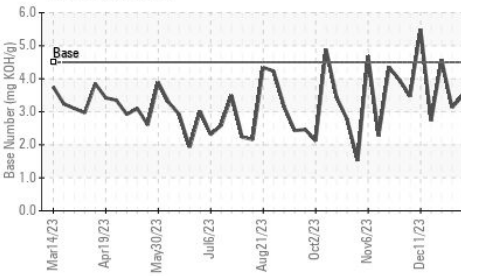
FT-IR (Direct Trend)



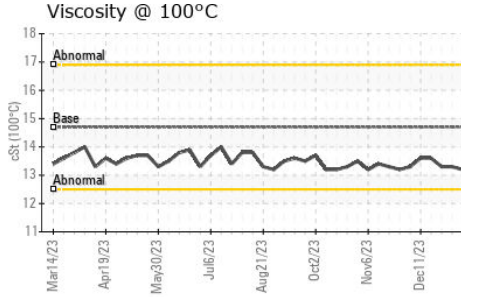
Acid Number



Base Number



Viscosity @ 100°C



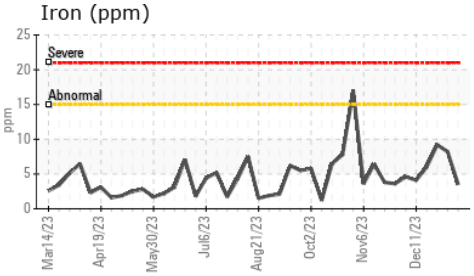
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**9.9**	11.4	10.5
Acid Number (AN)	mg KOH/g	ASTM D974*	1.2	**1.43**	1.46	1.90
Base Number (BN)	mg KOH/g	ASTM D2896*	4.5	**3.48**	3.13	4.58
i-pH	Scale 0-14	ASTM D7946*	<4.5	**6.68**	4.69	5.41

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

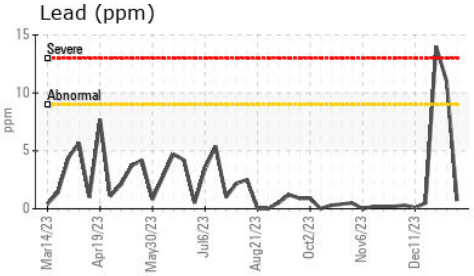
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.7	**13.2**	13.3	13.3

GRAPHS

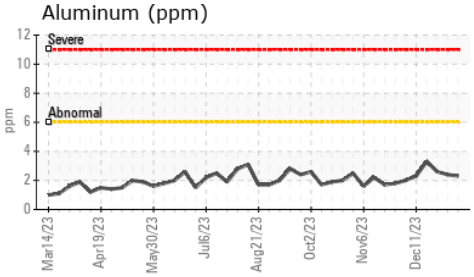
Iron (ppm)



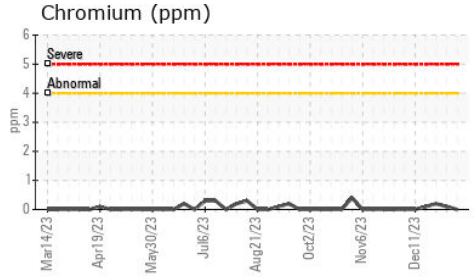
Lead (ppm)



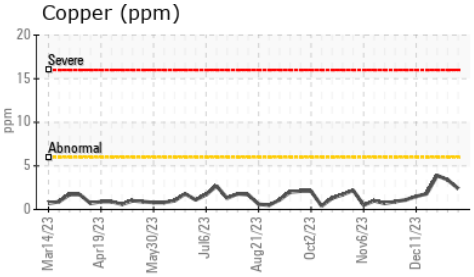
Aluminum (ppm)



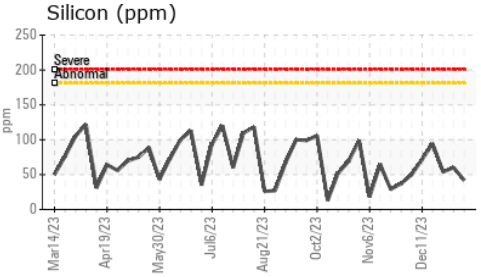
Chromium (ppm)



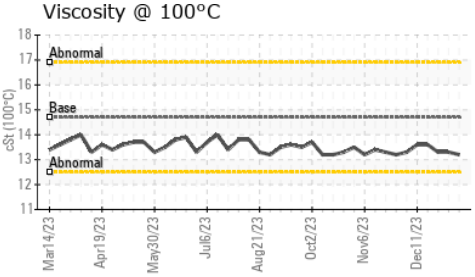
Copper (ppm)



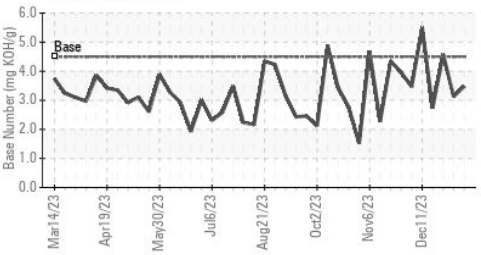
Silicon (ppm)



Viscosity @ 100°C



Base Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0874459 **Received** : 17 Jan 2024
Lab Number : 02609282 **Tested** : 22 Jan 2024
Unique Number : 5710368 **Diagnosed** : 22 Jan 2024 - Kevin Marson
Test Package : MOB 2 (Additional Tests: i-pH, TAN Auto)

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] 02609282 (Generated: 04/15/2024 08:49:46) Rev: 1

Submitted By: Simon Giroux