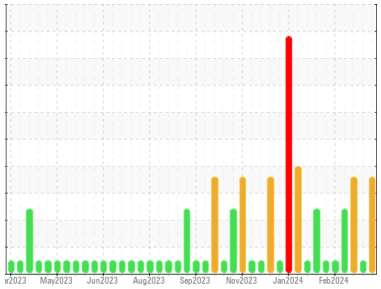
OIL ANALYSIS REPORT

Machine Id
LIDM05BE (S/N GZJ00188A)
Component
Biogas Engine
Fluid
CHEVRON HDAX 9500 GAS ENGINE OIL 40 (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		**WC0904361**	WC0904356	WC0874436
Sample Date		Client Info		**11 Mar 2024**	04 Mar 2024	19 Feb 2024
Machine Age	hrs	Client Info		**30036**	29870	29675
Oil Age	hrs	Client Info		**239**	73	546
Oil Changed		Client Info		**Not Changd**	Changed	Changed
Sample Status				**ABNORMAL**	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	**4**	3	5
Chromium	ppm	ASTM D5185(m)	>4	**0**	0	0
Nickel	ppm	ASTM D5185(m)	>2	**<1**	0	0
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	**0**	0	<1
Copper	ppm	ASTM D5185(m)	>6	**<1**	<1	1
Tin	ppm	ASTM D5185(m)	>4	**1**	<1	2
Antimony	ppm	ASTM D5185(m)		**1**	<1	3
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**	4	3
Barium	ppm	ASTM D5185(m)		**0**	0	<1
Molybdenum	ppm	ASTM D5185(m)		**1**	1	1
Manganese	ppm	ASTM D5185(m)		**0**	0	0
Magnesium	ppm	ASTM D5185(m)		**14**	13	13
Calcium	ppm	ASTM D5185(m)		**1773**	1708	1804
Phosphorus	ppm	ASTM D5185(m)		**255**	246	264
Zinc	ppm	ASTM D5185(m)		**295**	284	308
Sulfur	ppm	ASTM D5185(m)		**2823**	2061	3082
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>181	**60**	29	100
Sodium	ppm	ASTM D5185(m)		**<1**	<1	1
Potassium	ppm	ASTM D5185(m)	>20	**2**	2	3

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		**0**	0	0
Nitration	Abs/cm	ASTM D7624*	>20	**5.2**	4.9	5.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	**22.7**	18.1	23.9

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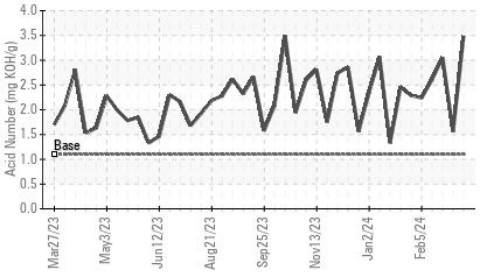
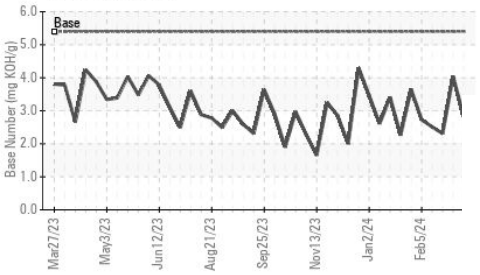
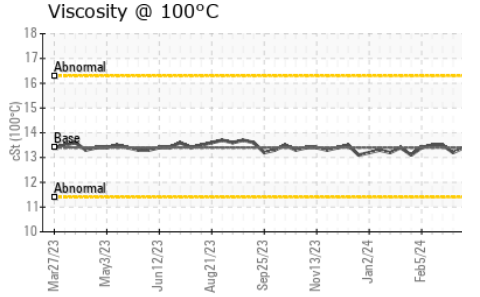
Acid Number



Base Number



Viscosity @ 100°C



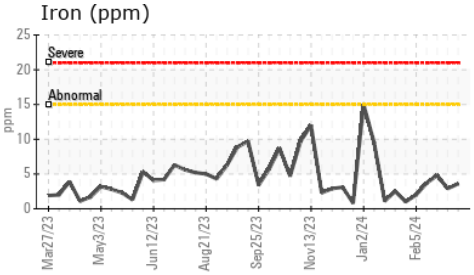
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**12.4**	8.7	12.7
Acid Number (AN)	mg KOH/g	ASTM D974*	1.1	▲ **3.48**	1.56	▲ 3.05
Base Number (BN)	mg KOH/g	ASTM D2896*	5.4	▲ **2.83**	4.04	▲ 2.31
i-pH	Scale 0-14	ASTM D7946*	<4.5	▲ **4.41**	5.71	▲ 4.08

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

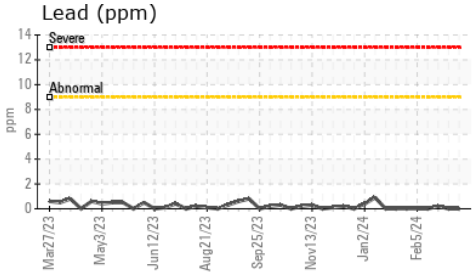
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	13.4	**13.4**	13.2	13.5

GRAPHS

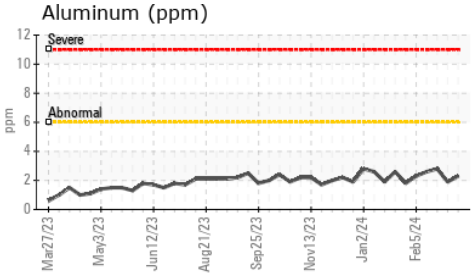
Iron (ppm)



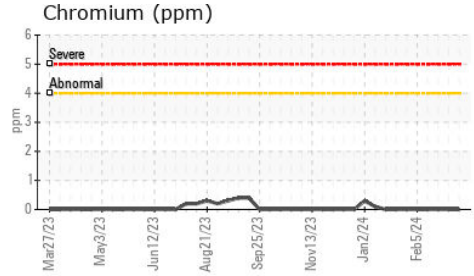
Lead (ppm)



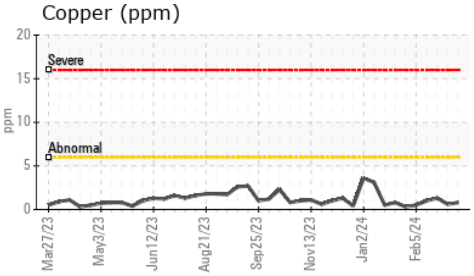
Aluminum (ppm)



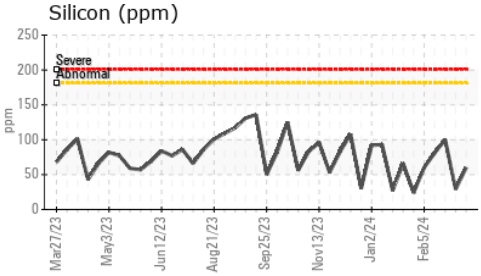
Chromium (ppm)



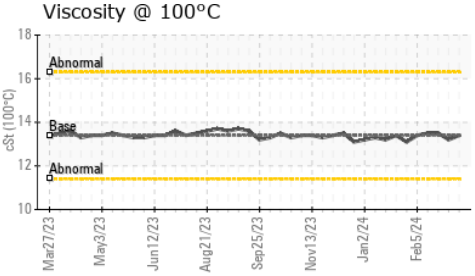
Copper (ppm)



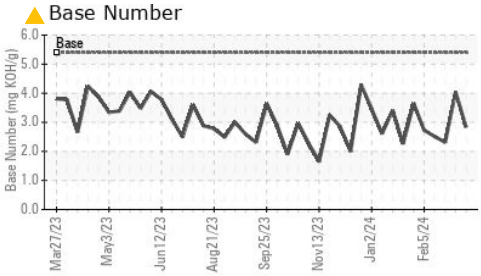
Silicon (ppm)



Viscosity @ 100°C



Base Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0904361 **Received** : 13 Mar 2024
Lab Number : 02621753 **Tested** : 13 Mar 2024
Unique Number : 5746872 **Diagnosed** : 14 Mar 2024 - 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] 02621753 (Generated: 03/14/2024 09:25:03) Rev: 1

Submitted By: Simon Giroux