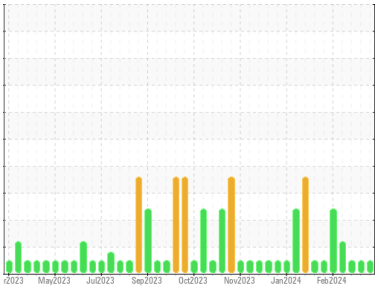
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
LIDM07BE (S/N GZJ00166)
Component
Biogas Engine
Fluid
CHEVRON HDAX 9500 GAS ENGINE OIL 40 (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		**WC0904339**	WC0904358	WC0904351
Sample Date		Client Info		**18 Mar 2024**	04 Mar 2024	26 Feb 2024
Machine Age	hrs	Client Info		**27704**	27440	27272
Oil Age	hrs	Client Info		**136**	283	115
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**NORMAL**	NORMAL	NORMAL

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	**5**	4	2
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	0
Aluminum	ppm	ASTM D5185(m)	>6	**2**	3	2
Lead	ppm	ASTM D5185(m)	>9	**<1**	0	0
Copper	ppm	ASTM D5185(m)	>6	**<1**	<1	<1
Tin	ppm	ASTM D5185(m)	>4	**<1**	1	<1
Antimony	ppm	ASTM D5185(m)		**<1**	2	<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

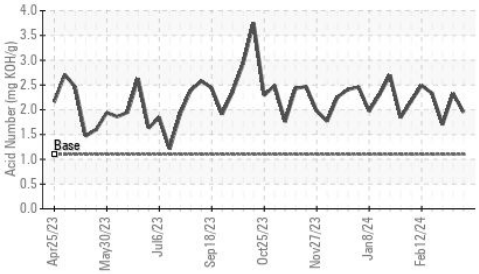
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**4**	4	4
Barium	ppm	ASTM D5185(m)		**0**	0	0
Molybdenum	ppm	ASTM D5185(m)		**1**	1	1
Manganese	ppm	ASTM D5185(m)		**0**	0	0
Magnesium	ppm	ASTM D5185(m)		**12**	13	13
Calcium	ppm	ASTM D5185(m)		**1733**	1783	1733
Phosphorus	ppm	ASTM D5185(m)		**247**	251	248
Zinc	ppm	ASTM D5185(m)		**287**	297	290
Sulfur	ppm	ASTM D5185(m)		**2524**	3002	2293
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>181	**50**	73	41
Sodium	ppm	ASTM D5185(m)		**<1**	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	**2**	2	2

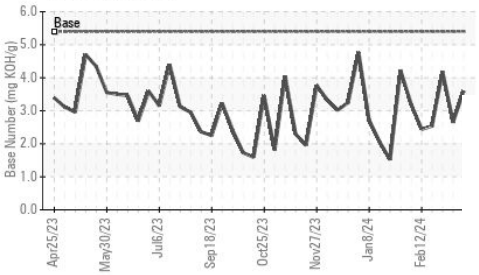
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		**0**	0	0
Nitration	Abs/cm	ASTM D7624*	>20	**4.6**	5.0	4.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	**19.1**	22.0	18.6

OIL ANALYSIS REPORT

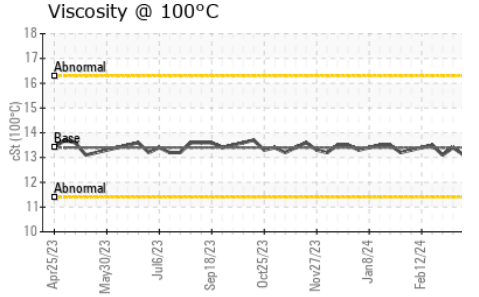
Acid Number



Base Number



Viscosity @ 100°C



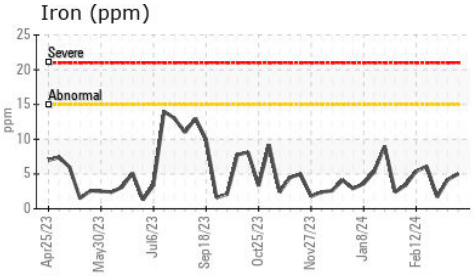
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**8.8**	11.0	9.0
Acid Number (AN)	mg KOH/g	ASTM D974*	1.1	**1.95**	2.33	1.70
Base Number (BN)	mg KOH/g	ASTM D2896*	5.4	**3.59**	2.65	4.19
i-pH	Scale 0-14	ASTM D7946*	<4.5	**5.21**	4.98	5.75

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

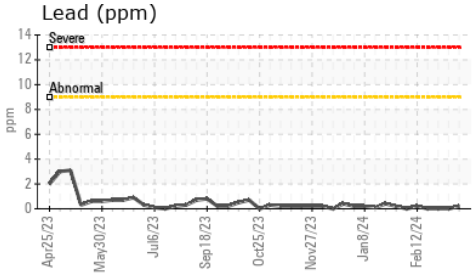
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	13.4	**13.1**	13.4	13.1

GRAPHS

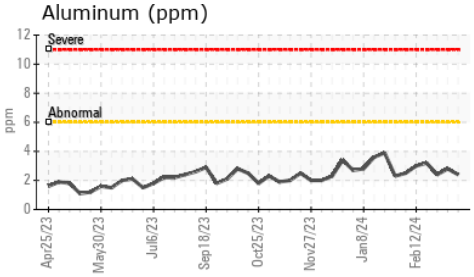
Iron (ppm)



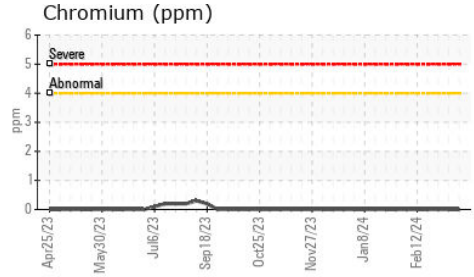
Lead (ppm)



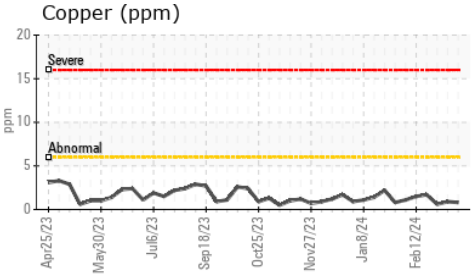
Aluminum (ppm)



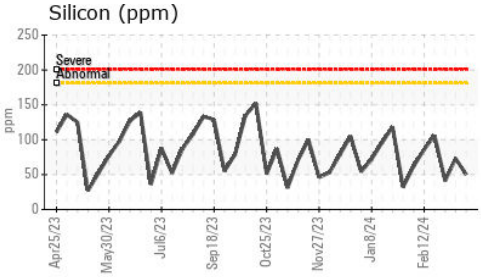
Chromium (ppm)



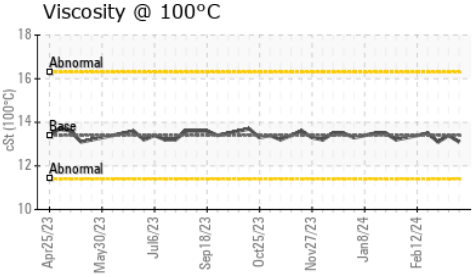
Copper (ppm)



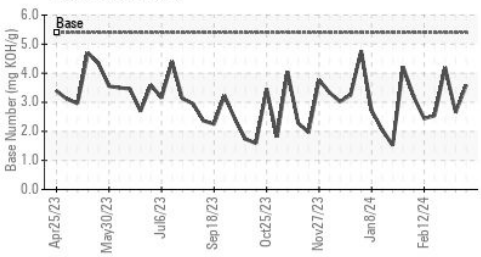
Silicon (ppm)



Viscosity @ 100°C



Base Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0904339 **Received** : 19 Mar 2024
Lab Number : 02623034 **Tested** : 20 Mar 2024
Unique Number : 5748153 **Diagnosed** : 20 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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