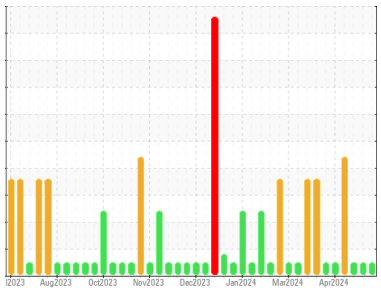
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
LIDM04BE (S/N GZJ00279)
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		**WC0904255**	WC0904270	WC0904304
Sample Date		Client Info		**10 Jun 2024**	03 Jun 2024	13 May 2024
Machine Age	hrs	Client Info		**50928**	50763	50549
Oil Age	hrs	Client Info		**269**	104	81
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		**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>14	**5**	7	6
Chromium	ppm	ASTM D5185(m)	>3	**0**	<1	0
Nickel	ppm	ASTM D5185(m)		**<1**	0	0
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)		**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>5	**3**	4	2
Lead	ppm	ASTM D5185(m)	>8	**0**	0	0
Copper	ppm	ASTM D5185(m)	>5	**2**	2	<1
Tin	ppm	ASTM D5185(m)	>3	**<1**	<1	<1
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

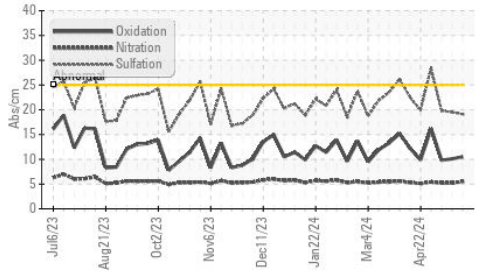
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**6**	4	5
Barium	ppm	ASTM D5185(m)		**0**	0	0
Molybdenum	ppm	ASTM D5185(m)		**4**	<1	<1
Manganese	ppm	ASTM D5185(m)		**<1**	<1	<1
Magnesium	ppm	ASTM D5185(m)		**10**	12	12
Calcium	ppm	ASTM D5185(m)		**1731**	1688	1657
Phosphorus	ppm	ASTM D5185(m)		**242**	248	239
Zinc	ppm	ASTM D5185(m)		**297**	287	288
Sulfur	ppm	ASTM D5185(m)		**2203**	2334	2365
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>180	**46**	34	35
Sodium	ppm	ASTM D5185(m)	>20	**<1**	2	<1
Potassium	ppm	ASTM D5185(m)	>20	**2**	1	1

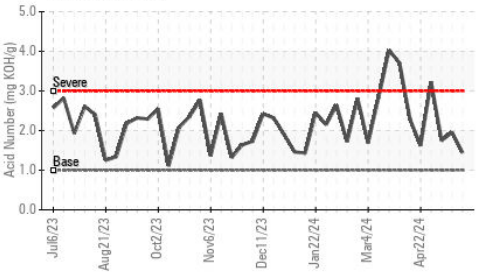
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		**0**	0	0
Nitration	Abs/cm	ASTM D7624*		**5.5**	5.2	5.2
Sulfation	Abs/.1mm	ASTM D7415*		**19.1**	19.5	19.8

OIL ANALYSIS REPORT

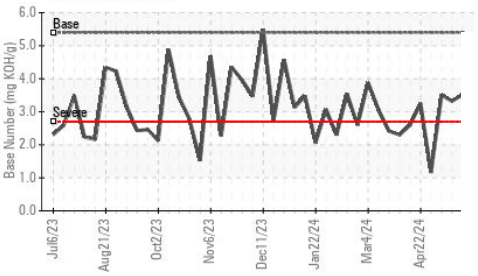
FT-IR (Direct Trend)



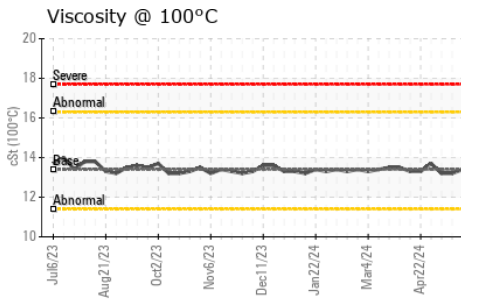
Acid Number



Base Number



Viscosity @ 100°C



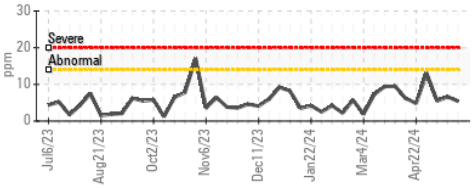
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*		**10.5**	10.1	9.8
Acid Number (AN)	mg KOH/g	ASTM D974*	1.0	**1.44**	1.95	1.75
Base Number (BN)	mg KOH/g	ASTM D2896*	5.4	**3.52**	3.32	3.50
i-pH	Scale 0-14	ASTM D7946*	<4.5	**5.33**	4.90	5.42

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	VLITE	---
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	---
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	---
Silt	scalar	Visual*	NONE	**NONE**	VLITE	---
Debris	scalar	Visual*	NONE	**NONE**	NONE	---
Sand/Dirt	scalar	Visual*	NONE	**NONE**	NONE	---
Appearance	scalar	Visual*	NORML	**NORML**	NORML	---
Odor	scalar	Visual*	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	Visual*		**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

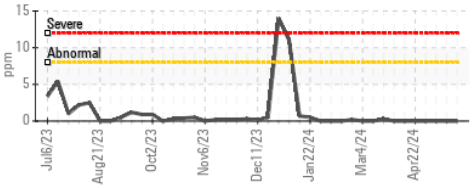
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	13.4	**13.4**	13.2	13.2

GRAPHS

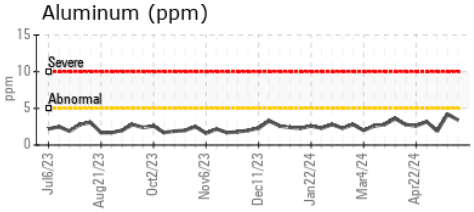
Iron (ppm)



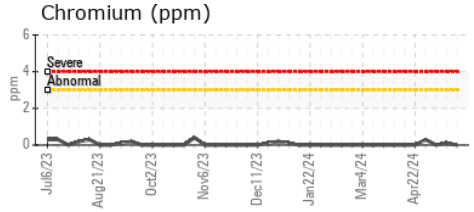
Lead (ppm)



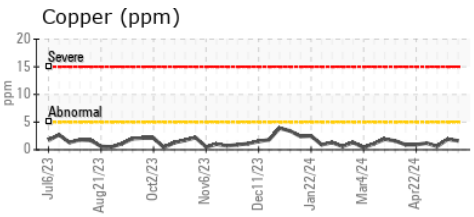
Aluminum (ppm)



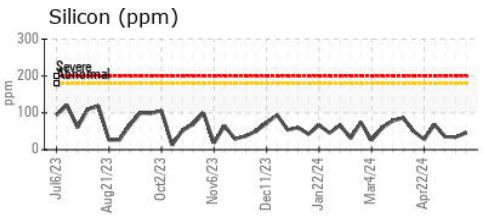
Chromium (ppm)



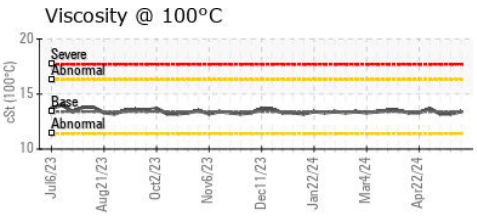
Copper (ppm)



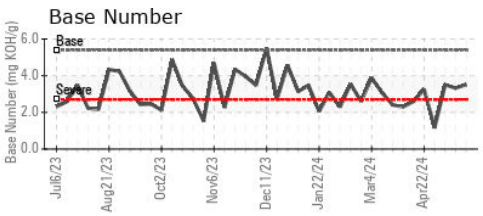
Silicon (ppm)



Viscosity @ 100°C



Base Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0904255 **Received** : 11 Jun 2024
Lab Number : 02641100 **Tested** : 12 Jun 2024
Unique Number : 5798639 **Diagnosed** : 12 Jun 2024 - Kevin Marson
Test Package : MOB 2 (Additional Tests: i-pH, TAN Auto, TAN Man, Visual)

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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