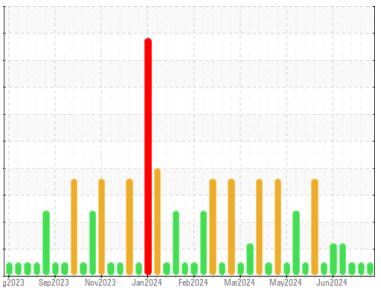
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
LIDM05BE (S/N GZJ00188A)
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		**WC0954689**	WC0904263	WC0954716
Sample Date		Client Info		**08 Jul 2024**	02 Jul 2024	25 Jun 2024
Machine Age	hrs	Client Info		**32635**	32523	32354
Oil Age	hrs	Client Info		**68**	686	517
Oil Changed		Client Info		**Changed**	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	**2**	4	5
Chromium	ppm	ASTM D5185(m)	>3	**0**	0	0
Nickel	ppm	ASTM D5185(m)		**<1**	<1	<1
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)		**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>5	**2**	2	2
Lead	ppm	ASTM D5185(m)	>8	**0**	0	0
Copper	ppm	ASTM D5185(m)	>5	**<1**	2	2
Tin	ppm	ASTM D5185(m)	>3	**<1**	2	2
Antimony	ppm	ASTM D5185(m)		**<1**	2	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

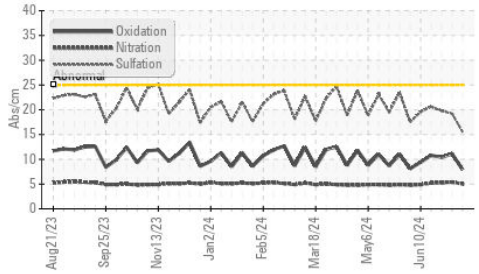
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**4**	5	5
Barium	ppm	ASTM D5185(m)		**0**	0	0
Molybdenum	ppm	ASTM D5185(m)		**4**	5	4
Manganese	ppm	ASTM D5185(m)		**<1**	<1	<1
Magnesium	ppm	ASTM D5185(m)		**10**	10	10
Calcium	ppm	ASTM D5185(m)		**1716**	1786	1735
Phosphorus	ppm	ASTM D5185(m)		**238**	234	242
Zinc	ppm	ASTM D5185(m)		**291**	304	299
Sulfur	ppm	ASTM D5185(m)		**1558**	2135	2335
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>180	**34**	110	104
Sodium	ppm	ASTM D5185(m)	>20	**<1**	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	**1**	2	2

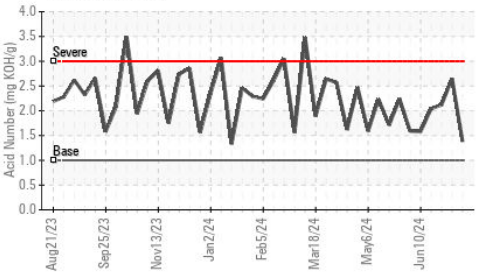
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		**0**	0	0
Nitration	Abs/cm	ASTM D7624*		**5.0**	5.4	5.3
Sulfation	Abs/.1mm	ASTM D7415*		**15.5**	19.2	19.8

OIL ANALYSIS REPORT

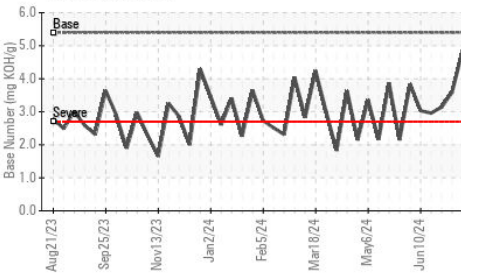
FT-IR (Direct Trend)



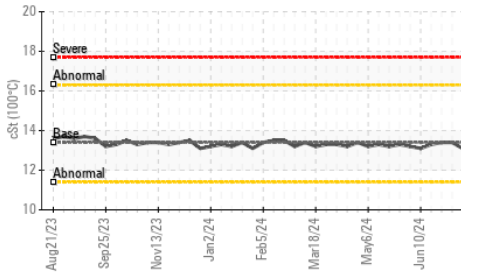
Acid Number



Base Number



Viscosity @ 100°C



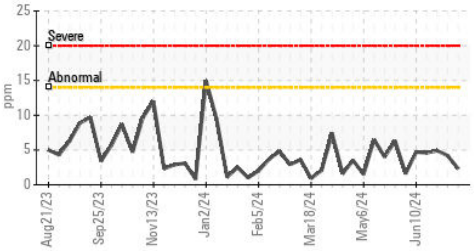
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*		**7.9**	11.1	10.4
Acid Number (AN)	mg KOH/g	ASTM D974*	1.0	**1.38**	2.65	2.12
Base Number (BN)	mg KOH/g	ASTM D2896*	5.4	**4.85**	3.59	3.14
i-pH	Scale 0-14	ASTM D7946*	<4.5	**6.14**	5.06	4.88

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

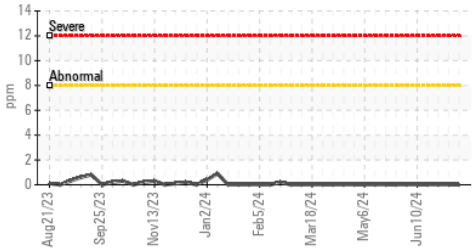
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	13.4	**13.1**	13.4	13.4

GRAPHS

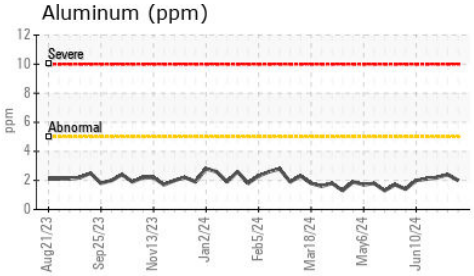
Iron (ppm)



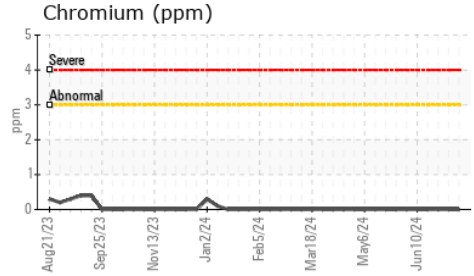
Lead (ppm)



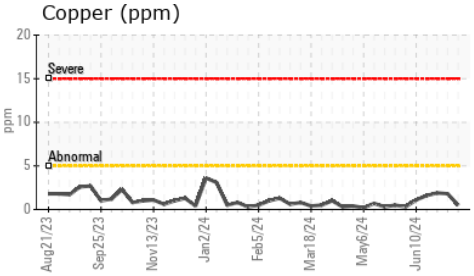
Aluminum (ppm)



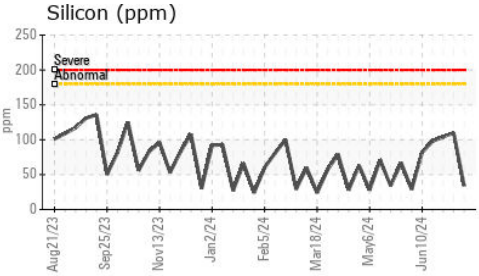
Chromium (ppm)



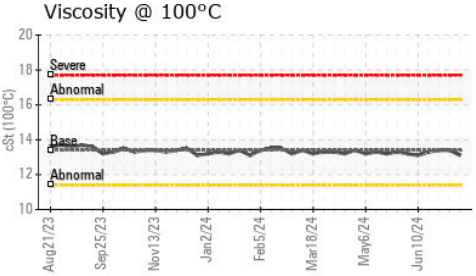
Copper (ppm)



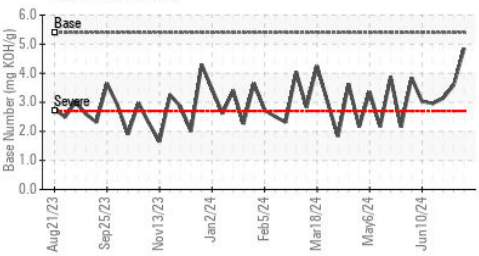
Silicon (ppm)



Viscosity @ 100°C



Base Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0954689 **Received** : 10 Jul 2024
Lab Number : 02646969 **Tested** : 16 Jul 2024
Unique Number : 5812521 **Diagnosed** : 16 Jul 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.

EDL NA Recips-Lydia
6985 CHEMIN DES SOURCES
LACHUTE, QC
CA J8H 2C5
Contact: Eloi Legault
eloi.legault@energydi.com
T: (450)526-4001
F: