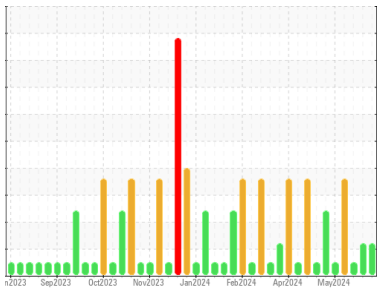
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Machine Id
LIDM05BE (S/N GZJ00188A)
Component
Biogas Engine
Fluid
CHEVRON HDAX 9500 GAS ENGINE OIL 40 (540 LTR)

DIAGNOSIS

Recommendation
Nous vous recommandons d`échantillonner de nouveau dès que possible afin de contrôler la situation.

Wear
Le taux d`étain est marginal. Le taux d`antimoine est marginal. Les taux d`usure de tous les autres 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		**WC0954712**	WC0904256	WC0904268
Sample Date		Client Info		**17 Jun 2024**	10 Jun 2024	03 Jun 2024
Machine Age	hrs	Client Info		**32190**	50928	31894
Oil Age	hrs	Client Info		**353**	9137	57
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**MARGINAL**	MARGINAL	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**	5	2
Chromium	ppm	ASTM D5185(m)	>3	**0**	0	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	**2**	2	1
Lead	ppm	ASTM D5185(m)	>8	**0**	0	0
Copper	ppm	ASTM D5185(m)	>5	**2**	1	<1
Tin	ppm	ASTM D5185(m)	>3	▲ **2**	▲ 2	<1
Antimony	ppm	ASTM D5185(m)		▲ **3**	▲ 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)		**5**	4	4
Barium	ppm	ASTM D5185(m)		**0**	0	0
Molybdenum	ppm	ASTM D5185(m)		**3**	<1	0
Manganese	ppm	ASTM D5185(m)		**<1**	<1	0
Magnesium	ppm	ASTM D5185(m)		**10**	10	10
Calcium	ppm	ASTM D5185(m)		**1751**	1726	1670
Phosphorus	ppm	ASTM D5185(m)		**243**	241	245
Zinc	ppm	ASTM D5185(m)		**303**	301	285
Sulfur	ppm	ASTM D5185(m)		**2484**	2297	1942
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>180	**98**	82	29
Sodium	ppm	ASTM D5185(m)	>20	**<1**	<1	<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*		**5.2**	4.9	4.8
Sulfation	Abs/.1mm	ASTM D7415*		**20.6**	19.6	17.5

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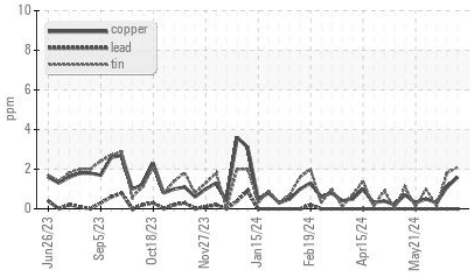
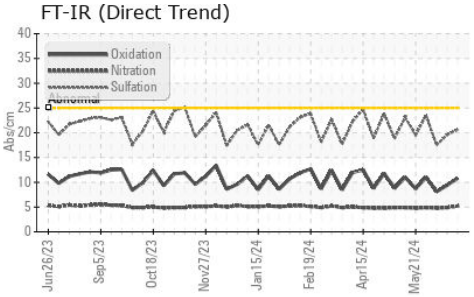
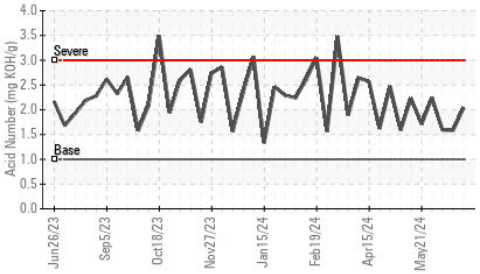
Non-ferrous Metals



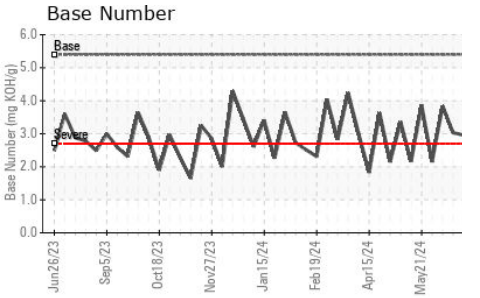
FT-IR (Direct Trend)



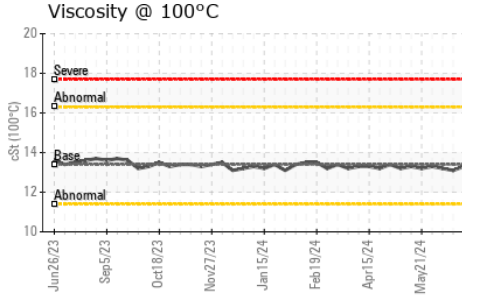
Acid Number



Base Number



Viscosity @ 100°C



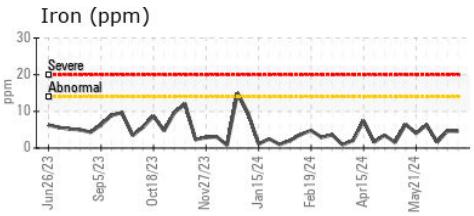
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*		**10.8**	9.4	8.1
Acid Number (AN)	mg KOH/g	ASTM D974*	1.0	**2.04**	1.58	1.59
Base Number (BN)	mg KOH/g	ASTM D2896*	5.4	**2.96**	3.03	3.84
i-pH	Scale 0-14	ASTM D7946*	<4.5	**5.42**	5.15	5.20

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

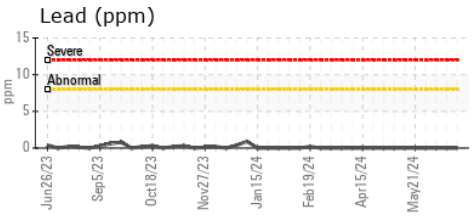
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	13.4	**13.3**	13.1	13.2

GRAPHS

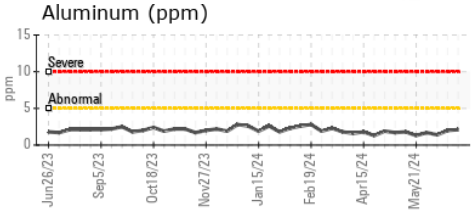
Iron (ppm)



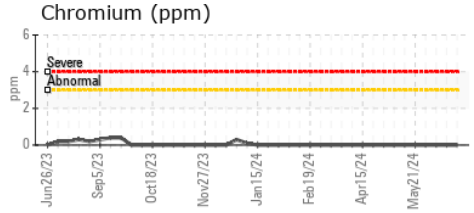
Lead (ppm)



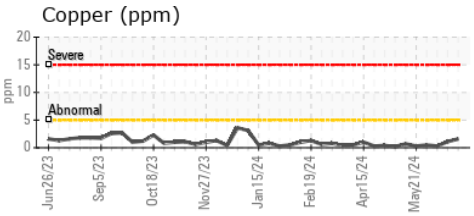
Aluminum (ppm)



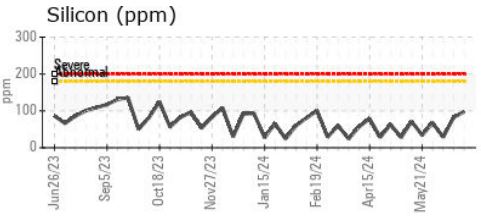
Chromium (ppm)



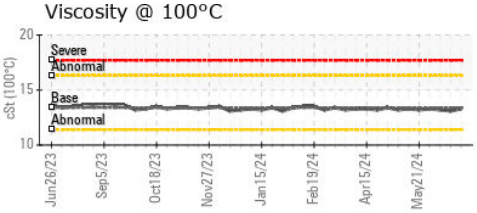
Copper (ppm)



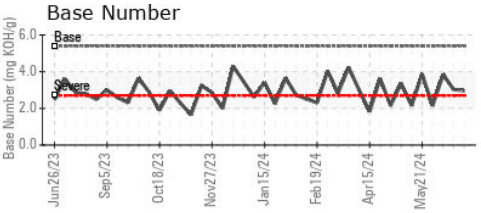
Silicon (ppm)



Viscosity @ 100°C



Base Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0954712 **Received** : 18 Jun 2024
Lab Number : 02642549 **Tested** : 20 Jun 2024
Unique Number : 5800088 **Diagnosed** : 20 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.

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: