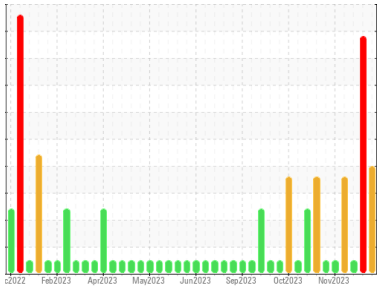
OIL ANALYSIS REPORT

Sample Rating Trend



PH

Machine Id
LIDM05BE (S/N GZJ00188A)
Component
Biogas Engine
Fluid
CHEVRON HDAX 6500 LFG GAS ENGINE OIL (540 LTR)

DIAGNOSIS

Recommendation
Nous vous recommandons de vidanger l`huile de ce composant si vous ne l`avez pas déjà fait. Nous vous recommandons d`échantillonner de nouveau dès que possible afin de contrôler la situation.

Wear
Le taux d`antimoine est marginal. Les taux d`usure de tous les autres composants sont normaux.

Contamination
Le test de glycol est négatif. 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		**WC0874476**	WC0874472	WC0874377
Sample Date		Client Info		**08 Jan 2024**	02 Jan 2024	11 Dec 2023
Machine Age	hrs	Client Info		**28706**	28574	37337
Oil Age	hrs	Client Info		**395**	263	72
Oil Changed		Client Info		**Not Changd**	Not Changd	Changed
Sample Status				**ABNORMAL**	SEVERE	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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>15	**10**	▲ 15	<1
Chromium	ppm	ASTM D5185(m)	>4	**<1**	<1	0
Nickel	ppm	ASTM D5185(m)	>2	**0**	<1	<1
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)	>5	**0**	0	<1
Aluminum	ppm	ASTM D5185(m)	>6	**3**	3	2
Lead	ppm	ASTM D5185(m)	>9	**<1**	<1	0
Copper	ppm	ASTM D5185(m)	>6	**3**	▲ 4	<1
Tin	ppm	ASTM D5185(m)	>4	**2**	▲ 2	0
Antimony	ppm	ASTM D5185(m)		▲ **3**	▲ 3	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

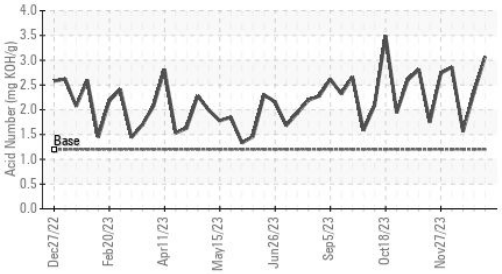
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**5**	7	4
Barium	ppm	ASTM D5185(m)		**0**	0	<1
Molybdenum	ppm	ASTM D5185(m)		**2**	3	3
Manganese	ppm	ASTM D5185(m)		**0**	0	0
Magnesium	ppm	ASTM D5185(m)		**13**	12	15
Calcium	ppm	ASTM D5185(m)		**1693**	1730	1714
Phosphorus	ppm	ASTM D5185(m)		**246**	258	246
Zinc	ppm	ASTM D5185(m)		**299**	308	295
Sulfur	ppm	ASTM D5185(m)		**2617**	2510	1788
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>181	**93**	92	30
Sodium	ppm	ASTM D5185(m)		**7**	11	<1
Potassium	ppm	ASTM D5185(m)	>20	**3**	5	<1
Glycol	%	ASTM D7922*		**0.0**	⬢ 0.128	NEG

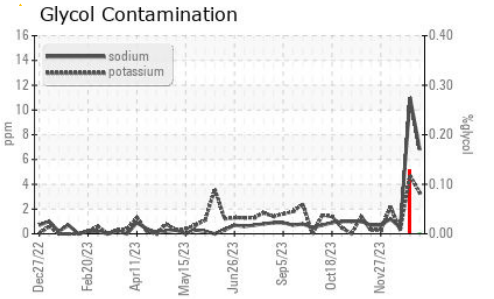
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		**0**	0	0
Nitration	Abs/cm	ASTM D7624*	>20	**5.1**	5.3	5.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	**21.6**	20.5	17.4

OIL ANALYSIS REPORT

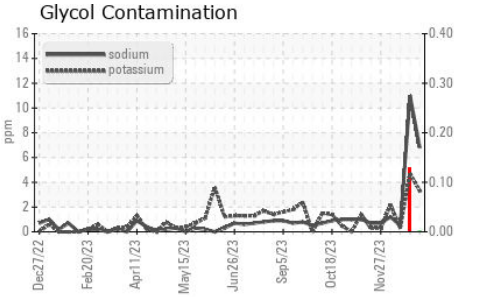
Acid Number



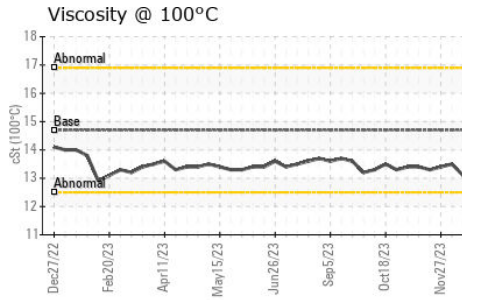
Glycol Contamination



Glycol Contamination



Viscosity @ 100°C



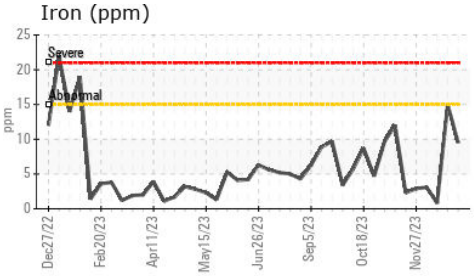
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**11.3**	9.6	8.6
Acid Number (AN)	mg KOH/g	ASTM D974*	1.2	▲ **3.07**	2.35	1.56
Base Number (BN)	mg KOH/g	ASTM D2896*	4.5	▲ **2.61**	3.46	4.30
i-pH	Scale 0-14	ASTM D7946*	<4.5	▲ **4.49**	5.26	6.11

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.1	**NEG**	.2%	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

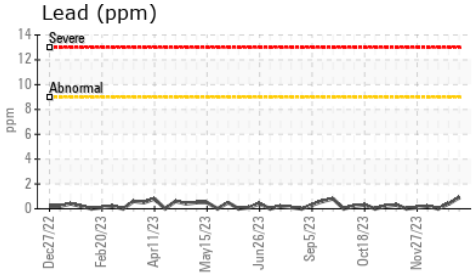
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.7	**13.3**	13.2	13.1

GRAPHS

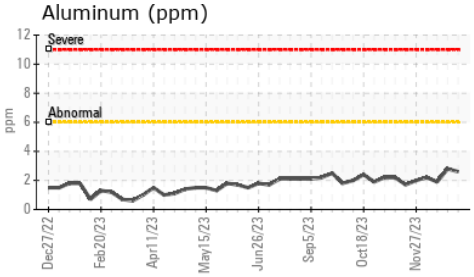
Iron (ppm)



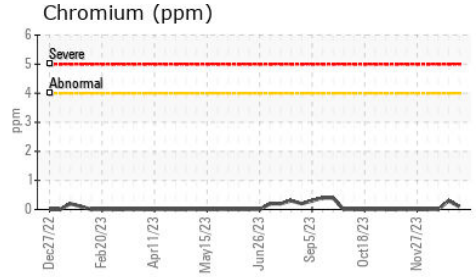
Lead (ppm)



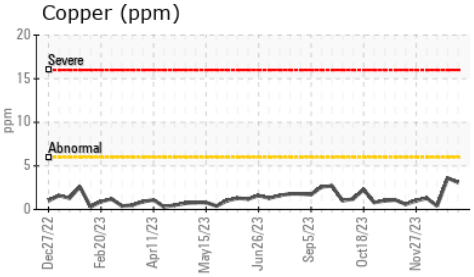
Aluminum (ppm)



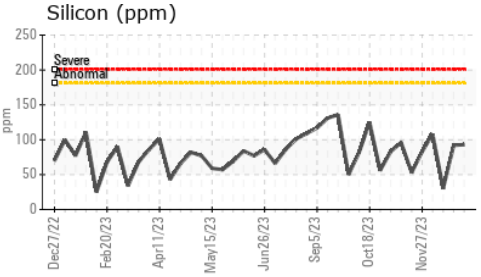
Chromium (ppm)



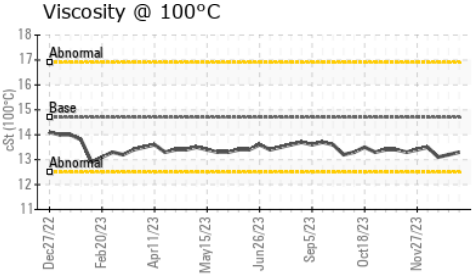
Copper (ppm)



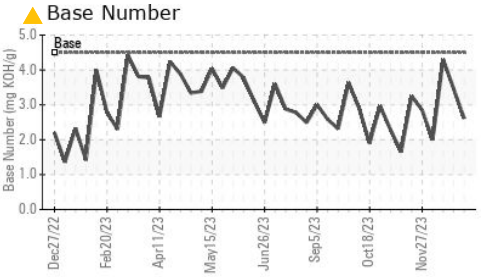
Silicon (ppm)



Viscosity @ 100°C



Base Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0874476 **Recieved** : 10 Jan 2024
Lab Number : 02607810 **Diagnosed** : 12 Jan 2024
Unique Number : 5708896 **Diagnostician** : 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:

Report Id: LYDLAC [WCAMIS] 02607810 (Generated: 01/12/2024 10:41:28) Rev: 1

Submitted By: Simon Giroux