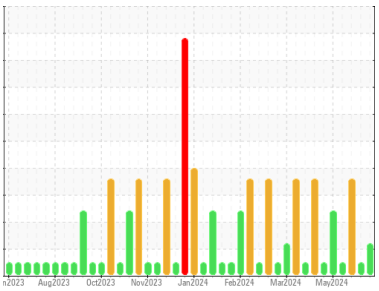
OIL ANALYSIS REPORT

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
Nous avons noté une hausse du taux d`étain. Nous avons noté une hausse du taux de antimoine. 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		**WC0904256**	WC0904268	WC0904273
Sample Date		Client Info		**10 Jun 2024**	03 Jun 2024	27 May 2024
Machine Age	hrs	Client Info		**50928**	31894	31739
Oil Age	hrs	Client Info		**9137**	57	231
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**MARGINAL**	NORMAL	ABNORMAL

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**	2	6
Chromium	ppm	ASTM D5185(m)	>3	**0**	0	0
Nickel	ppm	ASTM D5185(m)		**0**	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**	1	2
Lead	ppm	ASTM D5185(m)	>8	**0**	0	0
Copper	ppm	ASTM D5185(m)	>5	**1**	<1	<1
Tin	ppm	ASTM D5185(m)	>3	▲ **2**	<1	1
Antimony	ppm	ASTM D5185(m)		▲ **2**	<1	2
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

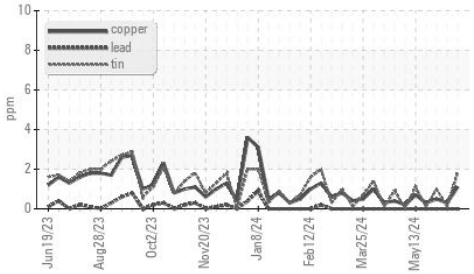
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**4**	4	4
Barium	ppm	ASTM D5185(m)		**0**	0	0
Molybdenum	ppm	ASTM D5185(m)		**<1**	0	<1
Manganese	ppm	ASTM D5185(m)		**<1**	0	<1
Magnesium	ppm	ASTM D5185(m)		**10**	10	14
Calcium	ppm	ASTM D5185(m)		**1726**	1670	1736
Phosphorus	ppm	ASTM D5185(m)		**241**	245	242
Zinc	ppm	ASTM D5185(m)		**301**	285	291
Sulfur	ppm	ASTM D5185(m)		**2297**	1942	2853
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>180	**82**	29	67
Sodium	ppm	ASTM D5185(m)	>20	**<1**	<1	2
Potassium	ppm	ASTM D5185(m)	>20	**1**	<1	2

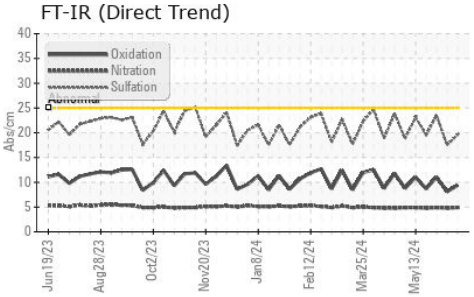
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		**0**	0	0
Nitration	Abs/cm	ASTM D7624*		**4.9**	4.8	4.9
Sulfation	Abs/.1mm	ASTM D7415*		**19.6**	17.5	23.5

OIL ANALYSIS REPORT

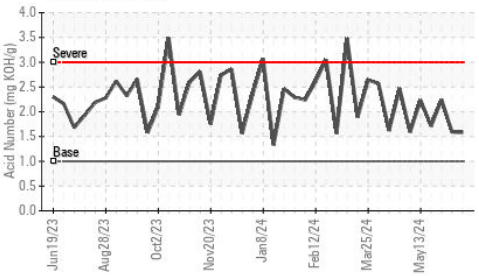
Non-ferrous Metals



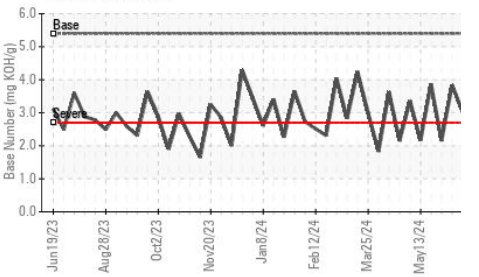
FT-IR (Direct Trend)



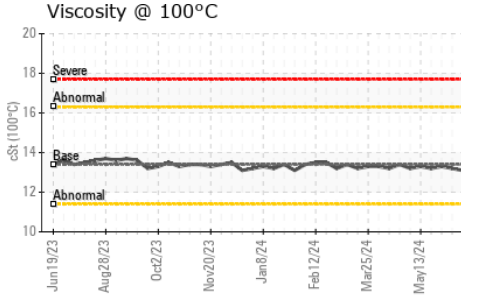
Acid Number



Base Number



Viscosity @ 100°C



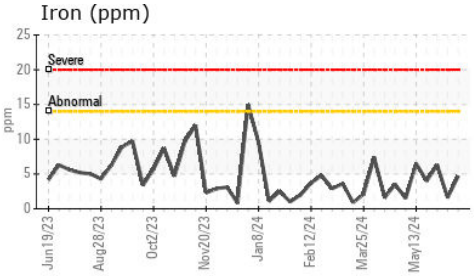
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*		**9.4**	8.1	11.0
Acid Number (AN)	mg KOH/g	ASTM D974*	1.0	**1.58**	1.59	▲ 2.24
Base Number (BN)	mg KOH/g	ASTM D2896*	5.4	**3.03**	3.84	▲ 2.15
i-pH	Scale 0-14	ASTM D7946*	<4.5	**5.15**	5.20	▲ 4.20

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

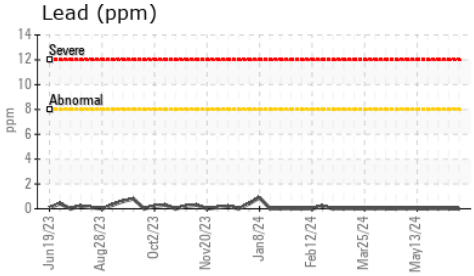
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	13.4	**13.1**	13.2	13.3

GRAPHS

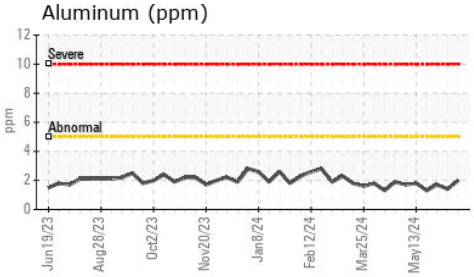
Iron (ppm)



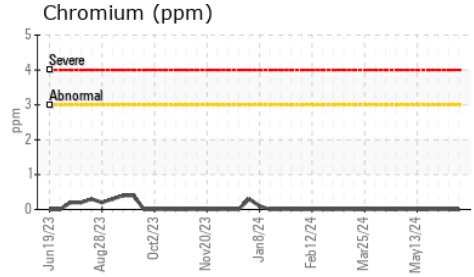
Lead (ppm)



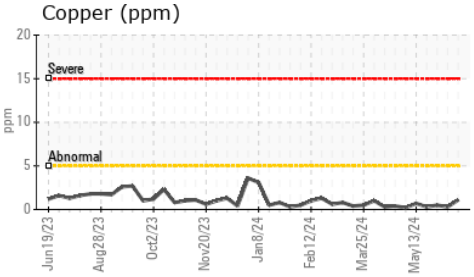
Aluminum (ppm)



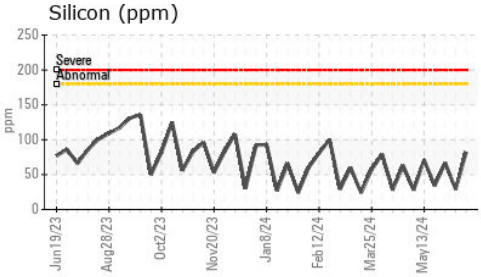
Chromium (ppm)



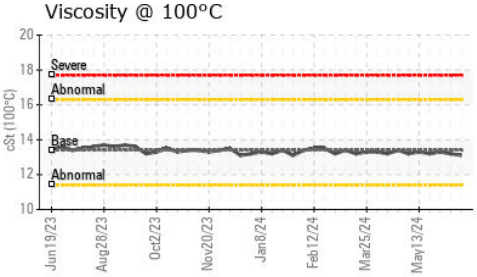
Copper (ppm)



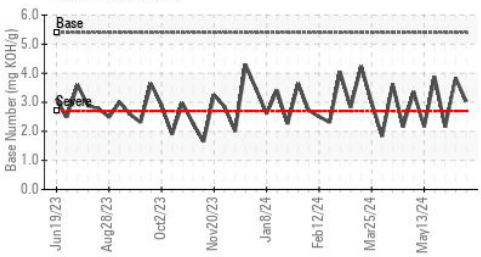
Silicon (ppm)



Viscosity @ 100°C



Base Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0904256 **Received** : 11 Jun 2024
Lab Number : 02641099 **Tested** : 12 Jun 2024
Unique Number : 5798638 **Diagnosed** : 12 Jun 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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Report Id: LYDLAC [WCAMIS] 02641099 (Generated: 06/12/2024 16:14:02) Rev: 1

Submitted By: Simon Giroux