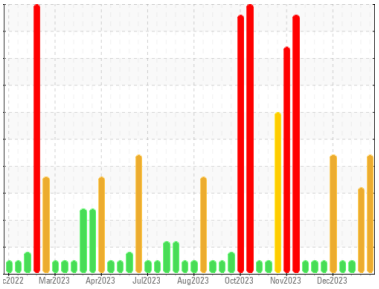
OIL ANALYSIS REPORT

Machine Id
LIDM01BE (S/N GZJ-00169)
Component
Biogas Engine
Fluid
CHEVRON HDAX 9500 GAS ENGINE OIL 40 (540 LTR)

Sample Rating Trend



PH

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
Usure de cylindre, de vilebrequin ou d`arbre à cames.

Contamination
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		**WC0874491**	WC0874456	WC0874467
Sample Date	Client Info		**22 Jan 2024**	15 Jan 2024	08 Jan 2024
Machine Age	Client Info		**114657**	3850	3704
Oil Age	Client Info		**597**	433	287
Oil Changed	Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status			**ABNORMAL**	ABNORMAL	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
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		**0**	---	---
Iron	ppm	ASTM D5185(m)	>15	▲ **17**	▲ 13	6
Chromium	ppm	ASTM D5185(m)	>4	**<1**	<1	0
Nickel	ppm	ASTM D5185(m)	>2	**<1**	<1	0
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)	>5	**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>6	**3**	3	2
Lead	ppm	ASTM D5185(m)	>9	**<1**	<1	<1
Copper	ppm	ASTM D5185(m)	>6	**3**	2	1
Tin	ppm	ASTM D5185(m)	>4	**3**	3	1
Antimony	ppm	ASTM D5185(m)		**4**	3	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)		**4**	4	4
Barium	ppm	ASTM D5185(m)		**0**	0	0
Molybdenum	ppm	ASTM D5185(m)		**2**	2	1
Manganese	ppm	ASTM D5185(m)		**0**	0	0
Magnesium	ppm	ASTM D5185(m)		**18**	18	17
Calcium	ppm	ASTM D5185(m)		**1761**	1747	1686
Phosphorus	ppm	ASTM D5185(m)		**259**	260	245
Zinc	ppm	ASTM D5185(m)		**306**	301	289
Sulfur	ppm	ASTM D5185(m)		**3441**	3078	2416
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>181	**143**	113	70
Sodium	ppm	ASTM D5185(m)		**<1**	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	**2**	2	2

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		**0**	0	0
Nitration	Abs/cm	ASTM D7624*	>20	**4.9**	4.9	4.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	**23.8**	22.1	19.9

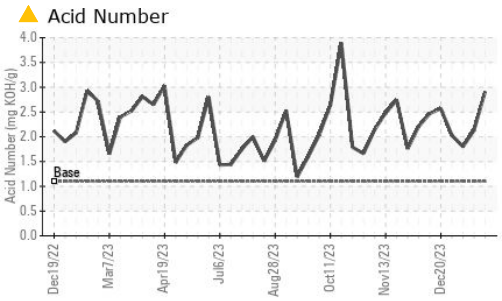
OIL ANALYSIS REPORT

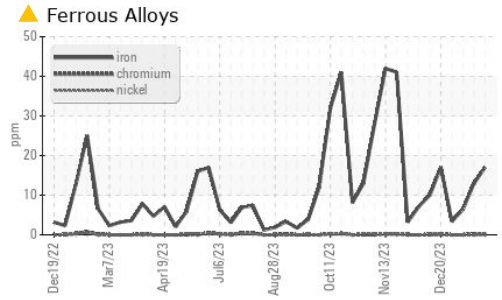
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**11.6**	10.7	9.6
Acid Number (AN)	mg KOH/g	ASTM D974*	1.1	▲ **2.91**	▲ 2.13	1.80
Base Number (BN)	mg KOH/g	ASTM D2896*	5.4	▲ **1.51**	▲ 2.05	3.28
i-pH	Scale 0-14	ASTM D7946*	<4.5	▲ **3.92**	4.76	4.68

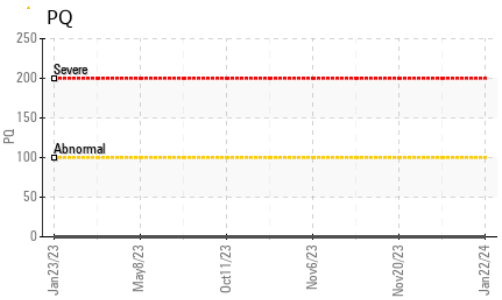
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.1	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

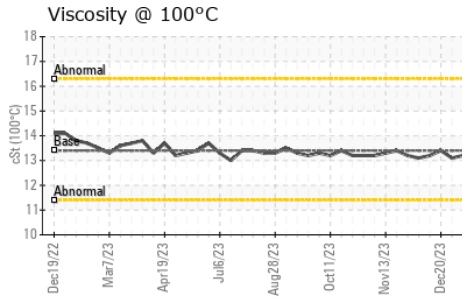
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	13.4	**13.3**	13.2	13.2

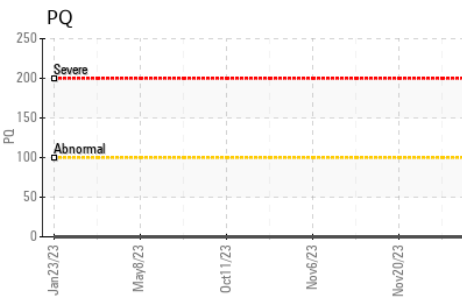
GRAPHS

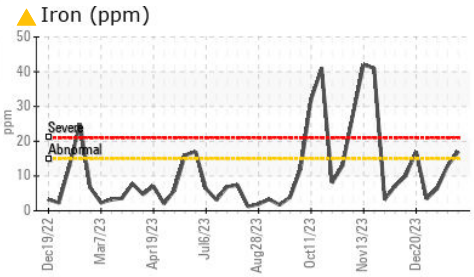


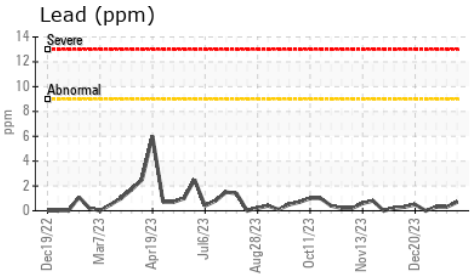


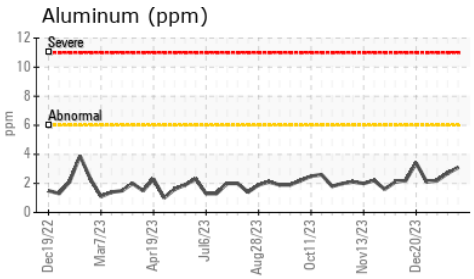


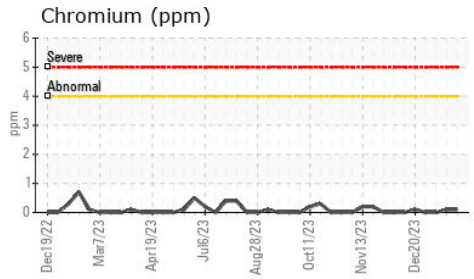


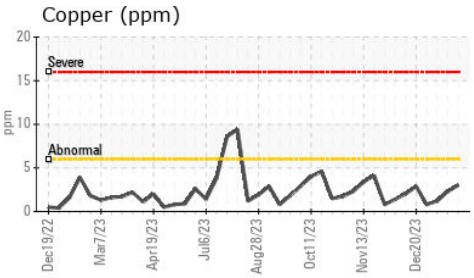


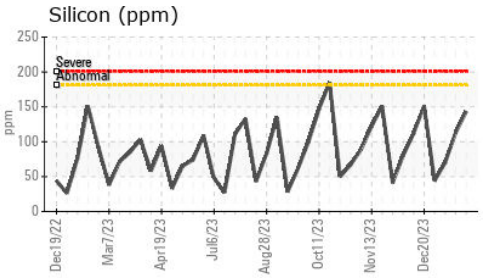


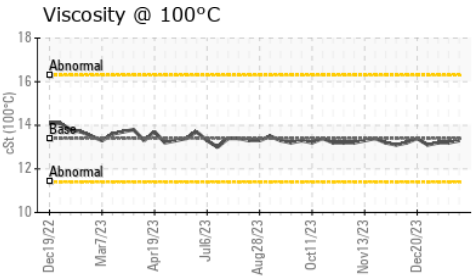


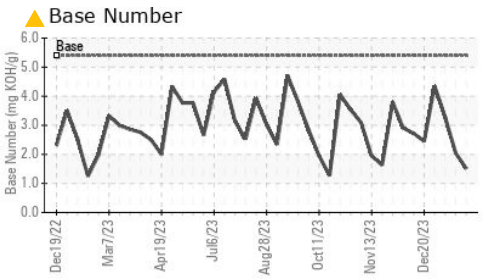












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0874491 **Recieved** : 23 Jan 2024
Lab Number : 02610549 **Diagnosed** : 26 Jan 2024
Unique Number : 5711635 **Diagnostician** : Kevin Marson
Test Package : MOB 2 (Additional Tests: i-pH, PQ, 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] 02610549 (Generated: 01/26/2024 09:36:49) Rev: 1

Submitted By: Simon Giroux