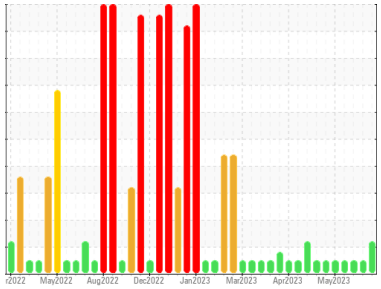
OIL ANALYSIS REPORT

Machine Id
LIDM07BE (S/N GZJ00166)
Component
Biogas Engine
Fluid
CHEVRON HDAX 6500 LFG GAS ENGINE OIL (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. 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 niveau de i-pH est anormalement bas. Le résultat pour le BN indique que la réserve d'alcalinité est acceptable pour l`huile. Le AN est acceptable pour ce fluide. l`huile ne peut plus être utilisée.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0817859**	WC0817870	WC0817830
Sample Date		Client Info		**19 Jun 2023**	12 Jun 2023	05 Jun 2023
Machine Age	hrs	Client Info		**22674**	22528	22386
Oil Age	hrs	Client Info		**769**	623	481
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**ABNORMAL**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	**<1.0**	<1.0	<1.0
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>15	**5**	3	2
Chromium	ppm	ASTM D5185(m)	>4	**0**	0	0
Nickel	ppm	ASTM D5185(m)	>2	**<1**	<1	<1
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)	>5	**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>6	**2**	2	2
Lead	ppm	ASTM D5185(m)	>9	**<1**	<1	<1
Copper	ppm	ASTM D5185(m)	>6	**2**	2	1
Tin	ppm	ASTM D5185(m)	>4	**3**	3	2
Antimony	ppm	ASTM D5185(m)		**8**	5	4
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)		**5**	6	5
Manganese	ppm	ASTM D5185(m)		**<1**	<1	<1
Magnesium	ppm	ASTM D5185(m)		**16**	16	16
Calcium	ppm	ASTM D5185(m)		**1857**	1911	1924
Phosphorus	ppm	ASTM D5185(m)		**277**	281	280
Zinc	ppm	ASTM D5185(m)		**313**	302	301
Sulfur	ppm	ASTM D5185(m)		**2589**	2095	2039
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>181	**139**	127	98
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	**5.5**	5.6	5.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	**23.2**	20.4	18.2

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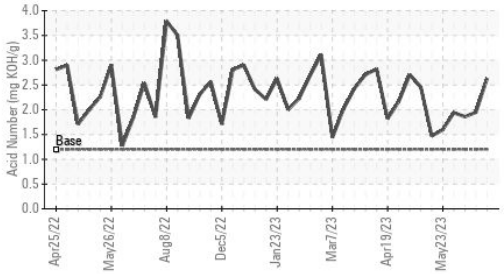
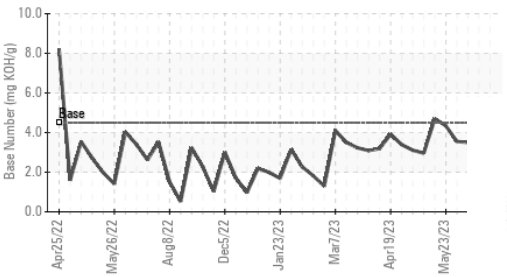
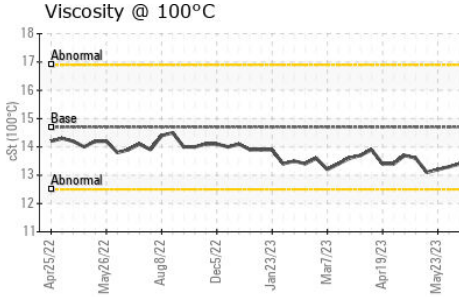
Acid Number



Base Number



Viscosity @ 100°C



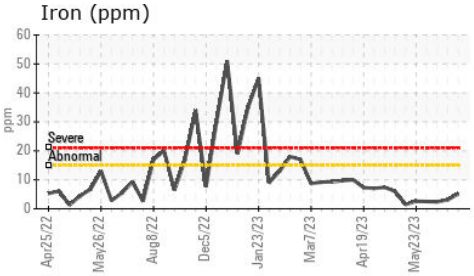
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**14.2**	12.7	10.3
Acid Number (AN)	mg KOH/g	ASTM D974*	1.2	**2.63**	1.95	1.86
Base Number (BN)	mg KOH/g	ASTM D2896*	4.5	**2.69**	3.46	3.50
i-pH	Scale 0-14	ASTM D7946*	<4.5	▲ **4.36**	5.24	5.57

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

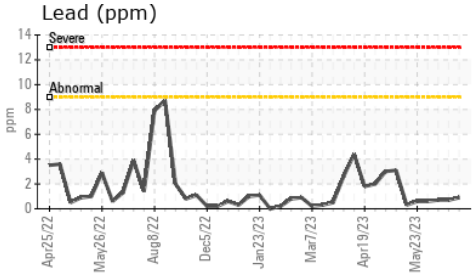
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.7	**13.6**	13.5	13.4

GRAPHS

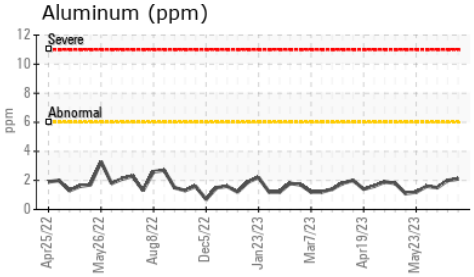
Iron (ppm)



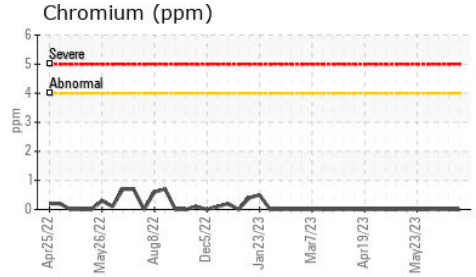
Lead (ppm)



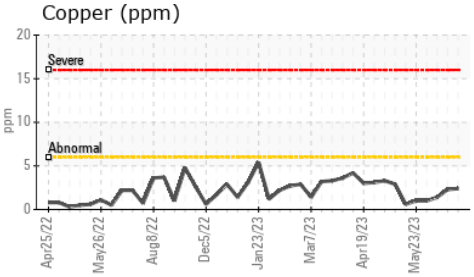
Aluminum (ppm)



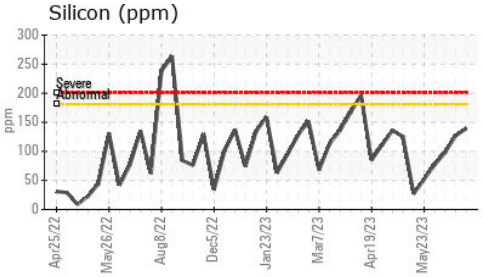
Chromium (ppm)



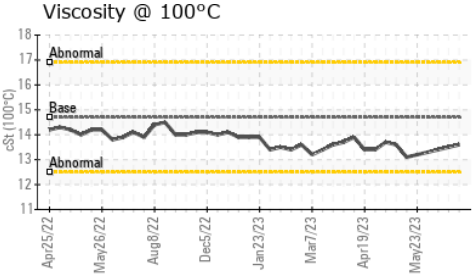
Copper (ppm)



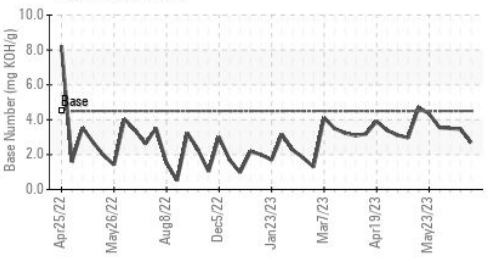
Silicon (ppm)



Viscosity @ 100°C



Base Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0817859 **Received** : 21 Jun 2023
Lab Number : 02565544 **Diagnosed** : 21 Jun 2023
Unique Number : 5594585 **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.

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Report Id: LYDLAC [WCAMIS] 02565544 (Generated: 07/21/2023 11:41:39) Rev: 1

Submitted By: Simon Giroux