

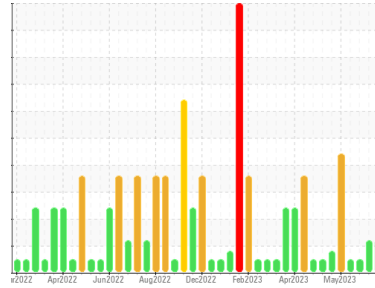


OIL ANALYSIS REPORT



Machine Id
LIDM01BE (S/N GZJ-00169)
 Component
Biogas Engine
 Fluid
CHEVRON HDAX 6500 LFG GAS ENGINE OIL (540 LTR)

Sample Rating Trend



PH



DIAGNOSIS

Recommendation

Nous avons pris note que la vidange d'huile a été effectuée au moment de l'échantillonnage. 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	WC0817941	WC0817938	WC0817931
Sample Date	Client Info	15 Aug 2023	07 Aug 2023	24 Jul 2023
Machine Age	hrs	611	423	91
Oil Age	hrs	611	423	91
Oil Changed	Client Info	Changed	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
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >15	7	7	3
Chromium	ppm ASTM D5185(m) >4	<1	<1	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	1
Lead	ppm ASTM D5185(m) >9	1	2	<1
Copper	ppm ASTM D5185(m) >6	9	9	4
Tin	ppm ASTM D5185(m) >4	4	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)	6	6	7
Barium	ppm ASTM D5185(m)	<1	<1	0
Molybdenum	ppm ASTM D5185(m)	4	4	4
Manganese	ppm ASTM D5185(m)	<1	<1	<1
Magnesium	ppm ASTM D5185(m)	16	16	14
Calcium	ppm ASTM D5185(m)	1730	1719	1637
Phosphorus	ppm ASTM D5185(m)	258	257	253
Zinc	ppm ASTM D5185(m)	296	291	286
Sulfur	ppm ASTM D5185(m)	2684	2434	1501
Lithium	ppm ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

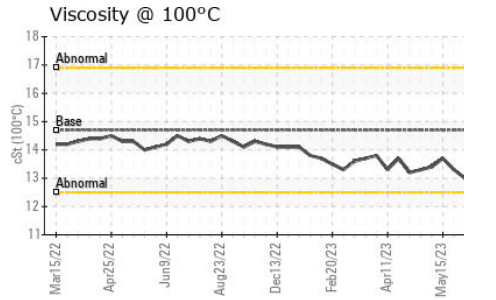
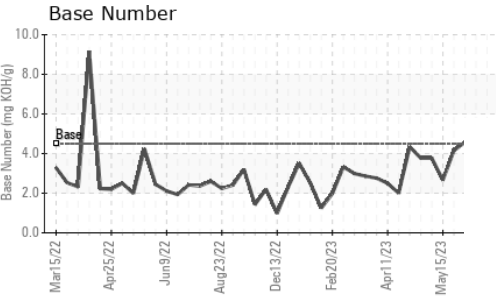
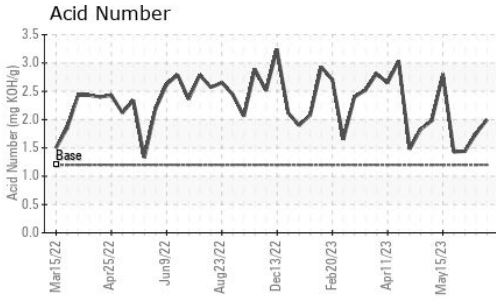
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >181	133	111	27
Sodium	ppm ASTM D5185(m)	9	10	8
Potassium	ppm ASTM D5185(m) >20	3	3	2

INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844*	0	0	0
Nitration	Abs/cm ASTM D7624* >20	5.0	4.6	4.6
Sulfation	Abs./1mm ASTM D7415* >30	22.3	19.7	15.7



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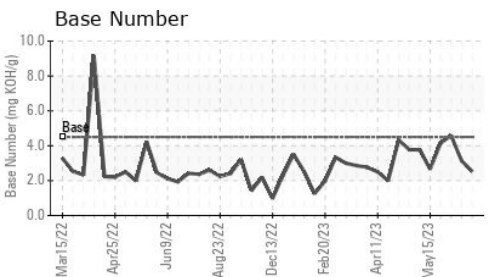
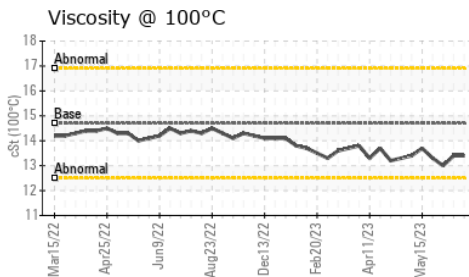
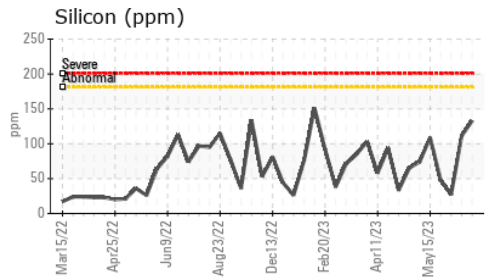
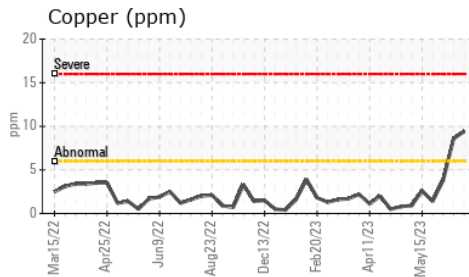
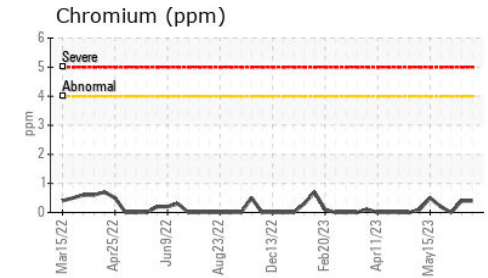
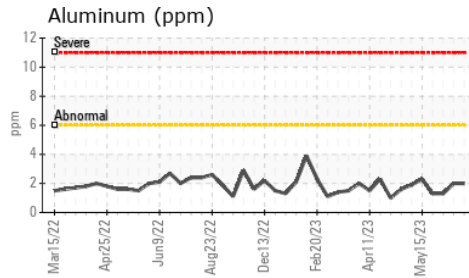
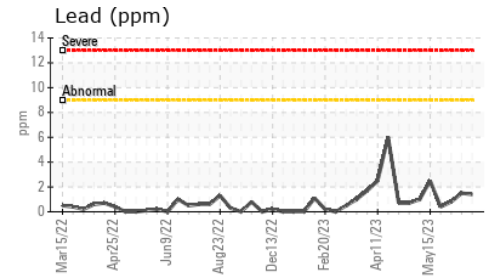
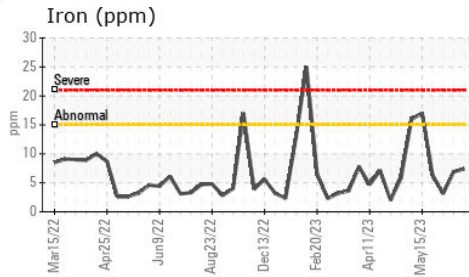


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	10.6	9.1	7.4
Acid Number (AN)	mg KOH/g	ASTM D974*	1.2	2.00	1.75	1.44
Base Number (BN)	mg KOH/g	ASTM D2896*	4.5	2.53	3.13	4.58
i-pH	Scale 0-14	ASTM D7946*	<4.5	▲ 4.28	▲ 4.32	5.69

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	13.4	13.4	13.0

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0817941 **Received** : 17 Aug 2023
Lab Number : **02576410** **Diagnosed** : 18 Aug 2023
Unique Number : 5629470 **Diagnostician** : Kevin Marson
Test Package : MOB 2 (Additional Tests: i-pH, TAN Auto)

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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