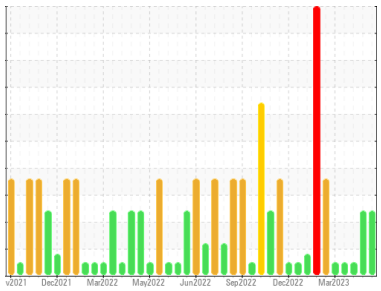
OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION

Machine Id
LIDM01BE (S/N GZJ-00169)
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. 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 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		**WC0772212**	WC0772190	WC0772202
Sample Date	Client Info		**11 Apr 2023**	27 Mar 2023	20 Mar 2023
Machine Age	Client Info		**44187**	43960	43927
Oil Age	Client Info		**151**	377	344
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
Iron	ppm	ASTM D5185(m)	>15	**5**	8	4
Chromium	ppm	ASTM D5185(m)	>4	**0**	<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	**2**	2	2
Lead	ppm	ASTM D5185(m)	>9	**2**	2	1
Copper	ppm	ASTM D5185(m)	>6	**1**	2	2
Tin	ppm	ASTM D5185(m)	>4	**1**	2	2
Antimony	ppm	ASTM D5185(m)		**1**	3	3
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)		**2**	1	1
Barium	ppm	ASTM D5185(m)		**0**	0	0
Molybdenum	ppm	ASTM D5185(m)		**<1**	<1	<1
Manganese	ppm	ASTM D5185(m)		**<1**	<1	<1
Magnesium	ppm	ASTM D5185(m)		**9**	8	7
Calcium	ppm	ASTM D5185(m)		**1894**	1936	1870
Phosphorus	ppm	ASTM D5185(m)		**278**	291	283
Zinc	ppm	ASTM D5185(m)		**294**	317	312
Sulfur	ppm	ASTM D5185(m)		**3151**	2282	2201
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>181	**58**	103	85
Sodium	ppm	ASTM D5185(m)		**<1**	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	**<1**	<1	<1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		**0**	0	0
Nitration	Abs/cm	ASTM D7624*	>20	**4.2**	7.2	4.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	**19.2**	24.7	18.3

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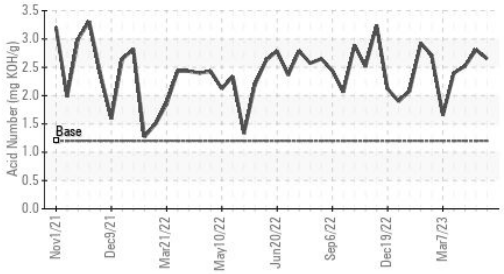
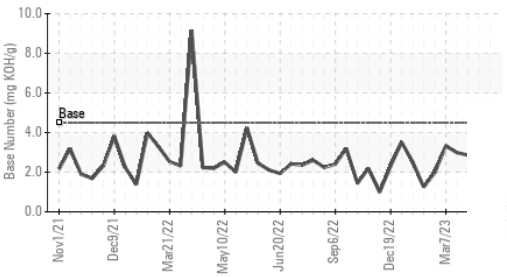
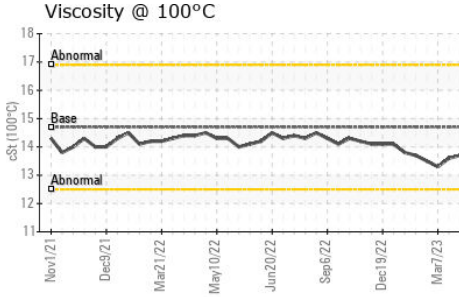
Acid Number



Base Number



Viscosity @ 100°C



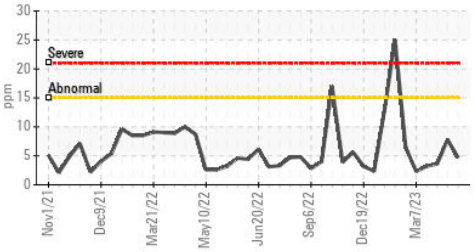
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**8.0**	17.5	9.3
Acid Number (AN)	mg KOH/g	ASTM D974*	1.2	▲ **2.65**	▲ 2.81	2.52
Base Number (BN)	mg KOH/g	ASTM D2896*	4.5	▲ **2.50**	▲ 2.76	2.86
i-pH	Scale 0-14	ASTM D7946*	<4.5	**4.88**	4.66	4.66

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

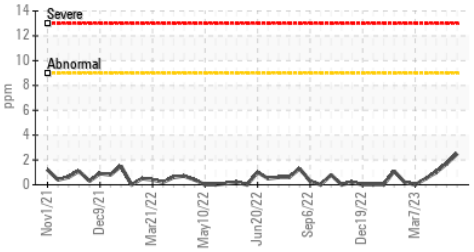
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.7	**13.3**	13.8	13.7

GRAPHS

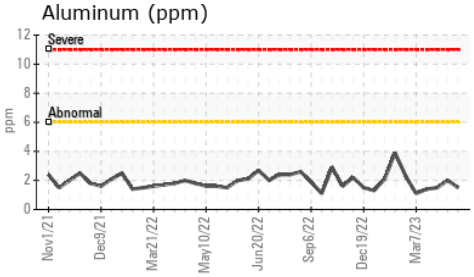
Iron (ppm)



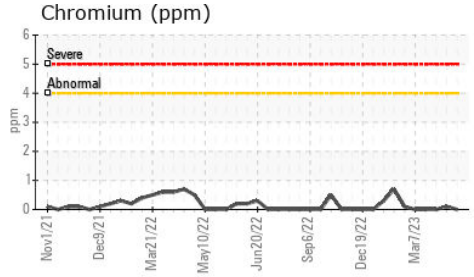
Lead (ppm)



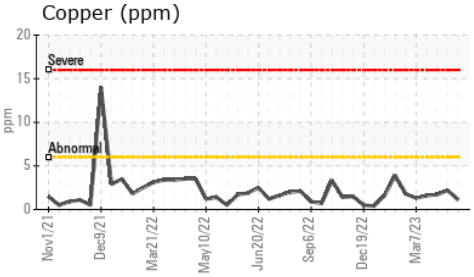
Aluminum (ppm)



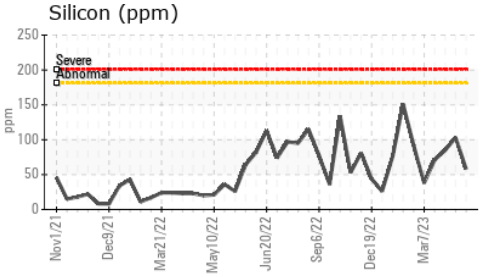
Chromium (ppm)



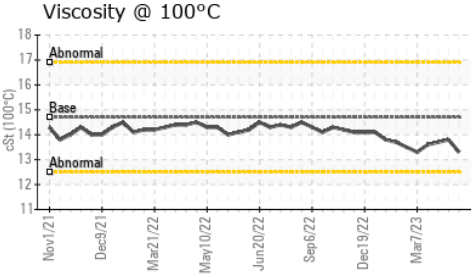
Copper (ppm)



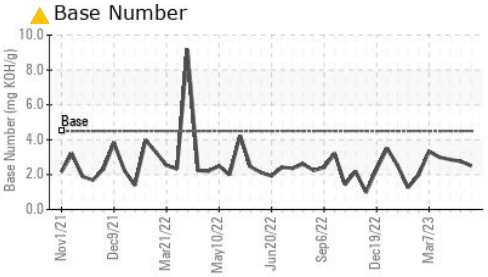
Silicon (ppm)



Viscosity @ 100°C



Base Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0772212 **Recieved** : 12 Apr 2023
Lab Number : 02550835 **Diagnosed** : 13 Apr 2023
Unique Number : 5563850 **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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