

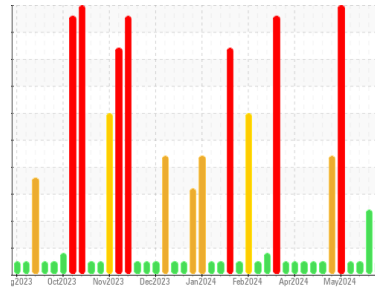


OIL ANALYSIS REPORT



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

Sample Rating Trend



NORMAL



DIAGNOSIS

Recommendation

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 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		WC0954720	WC0954709	WC0874479
Sample Date	Client Info		25 Jun 2024	17 Jun 2024	10 Jun 2024
Machine Age	hrs	Client Info	7104	6935	6769
Oil Age	hrs	Client Info	87	494	328
Oil Changed	Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status			NORMAL	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)	>45	3	17	15
Chromium	ppm	ASTM D5185(m)	>2	0	<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)	>10	2	2	2
Lead	ppm	ASTM D5185(m)	>5	0	0	0
Copper	ppm	ASTM D5185(m)	>14	<1	2	2
Tin	ppm	ASTM D5185(m)	>13	<1	2	2
Antimony	ppm	ASTM D5185(m)		<1	3	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)		6	3	3
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		6	2	<1
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		9	11	10
Calcium	ppm	ASTM D5185(m)		1670	1707	1660
Phosphorus	ppm	ASTM D5185(m)		232	237	231
Zinc	ppm	ASTM D5185(m)		284	292	285
Sulfur	ppm	ASTM D5185(m)		1575	2725	2406
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>200	30	126	93
Sodium	ppm	ASTM D5185(m)		7	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	2	1	2

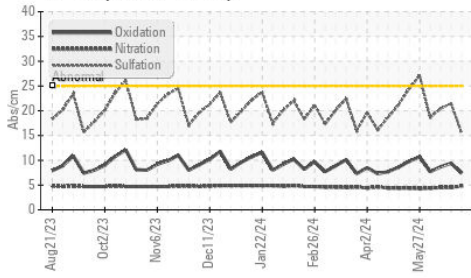
INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	4.8	4.5	4.5
Sulfation	Abs./1mm	ASTM D7415*	>30	15.5	21.5	20.4



OIL ANALYSIS REPORT

FT-IR (Direct Trend)



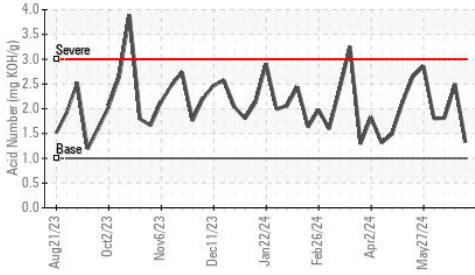
FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	7.4	9.4	8.7
Acid Number (AN)	mg KOH/g	ASTM D974*	1.0	1.32	2.49	1.81
Base Number (BN)	mg KOH/g	ASTM D2896*	5.4	4.89	2.39	3.10
i-pH	Scale 0-14	ASTM D7946*	<4.5	5.66	4.86	5.61

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

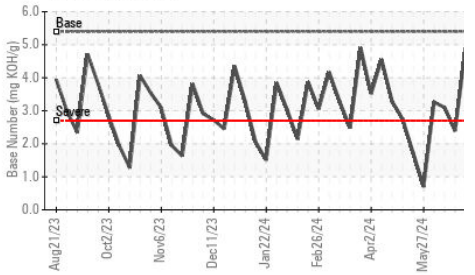
FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	13.4	13.1	13.2	13.1

GRAPHS

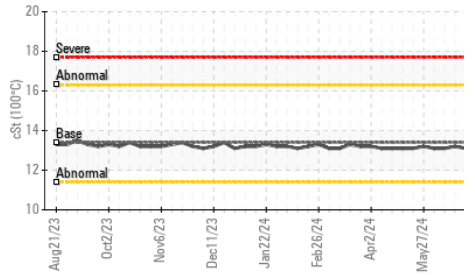
Acid Number



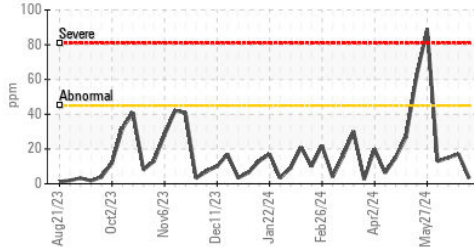
Base Number



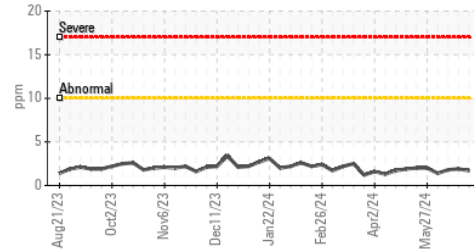
Viscosity @ 100°C



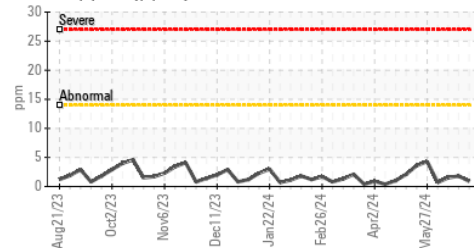
Iron (ppm)



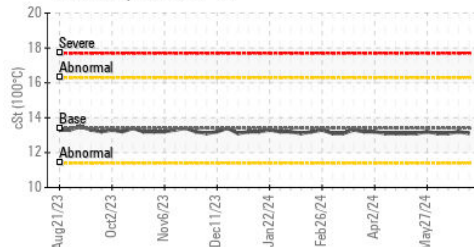
Aluminum (ppm)



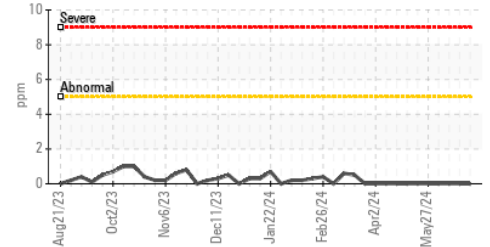
Copper (ppm)



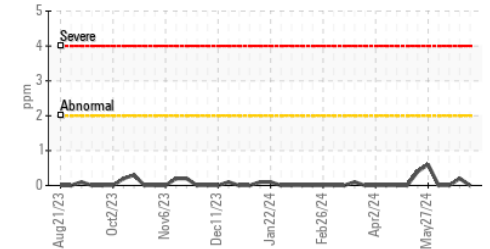
Viscosity @ 100°C



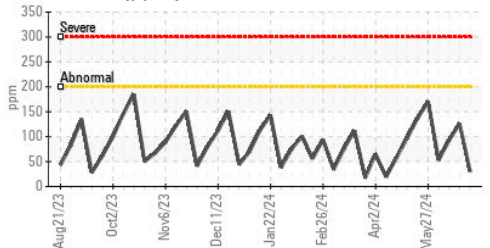
Lead (ppm)



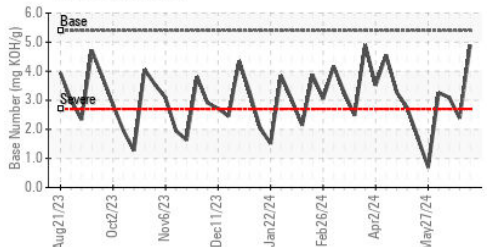
Chromium (ppm)



Silicon (ppm)



Base Number



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0954720 **Received** : 27 Jun 2024
Lab Number : 02644467 **Tested** : 27 Jun 2024
Unique Number : 5802006 **Diagnosed** : 28 Jun 2024 - Kevin Marson
Test Package : MOB 2 (Additional Tests: i-pH, TAN Auto, TAN Man)

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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.