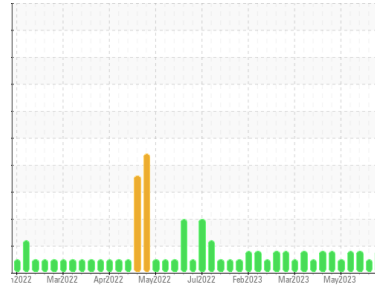




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
LIDM02BE (S/N GZJ00681)
 Component
Biogas Engine
 Fluid
CHEVRON HDAX 6500 LFG GAS ENGINE OIL (540 LTR)

DIAGNOSIS

▲ Recommendation

Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation. Veuillez communiquer avec un représentant WearCheck au sujet de l'achat d'une trousse d'échantillonnage appropriée à vos besoins. Cet ensemble de tests inclut la ferrographie analytique qui donne une analyse morphologique détaillée des particules d'usure présentes dans le fluide.

▲ Wear

Usure de palier.

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		WC0817831	WC0817836	WC0817852
Sample Date	Client Info		30 May 2023	23 May 2023	15 May 2023
Machine Age	hrs	Client Info	2614	2454	2263
Oil Age	hrs	Client Info	819	659	468
Oil Changed	Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status			ABNORMAL	NORMAL	ABNORMAL

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	3	1	5
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	<1	2
Lead	ppm	ASTM D5185(m)	>9	0	0	<1
Copper	ppm	ASTM D5185(m)	>6	▲ 7	2	▲ 14
Tin	ppm	ASTM D5185(m)	>4	2	<1	2
Antimony	ppm	ASTM D5185(m)		2	<1	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	5	3
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		6	5	2
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		14	14	12
Calcium	ppm	ASTM D5185(m)		1811	1762	1821
Phosphorus	ppm	ASTM D5185(m)		273	268	266
Zinc	ppm	ASTM D5185(m)		286	281	281
Sulfur	ppm	ASTM D5185(m)		1974	1642	2341
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>181	75	33	108
Sodium	ppm	ASTM D5185(m)		3	<1	1
Potassium	ppm	ASTM D5185(m)	>20	1	1	<1

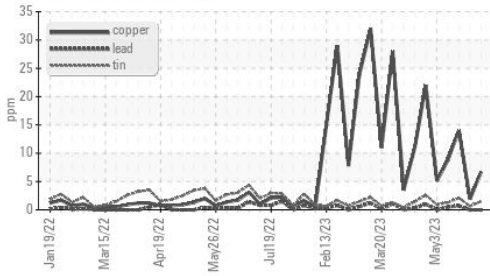
INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	4.7	4.8	5.2
Sulfation	Abs/1mm	ASTM D7415*	>30	17.0	15.9	19.7



OIL ANALYSIS REPORT

▲ Non-ferrous Metals



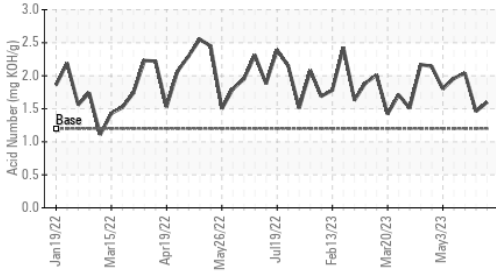
FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	8.5	8.0	10.2
Acid Number (AN)	mg KOH/g	ASTM D974*	1.2	1.60	1.46	2.04
Base Number (BN)	mg KOH/g	ASTM D2896*	4.5	4.00	4.58	3.30
i-pH	Scale 0-14	ASTM D7946*	<4.5	5.26	5.91	5.21

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

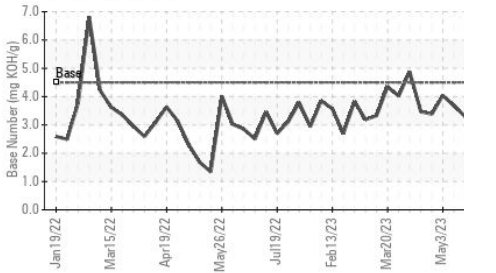
FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	14.7	13.2	13.1	13.3

GRAPHS

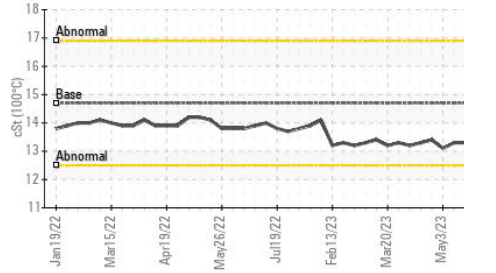
Acid Number



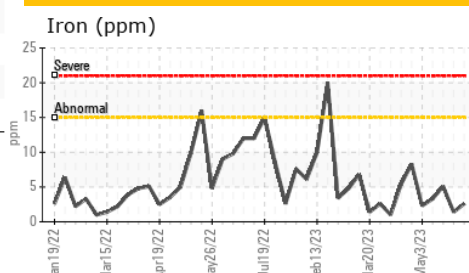
Base Number



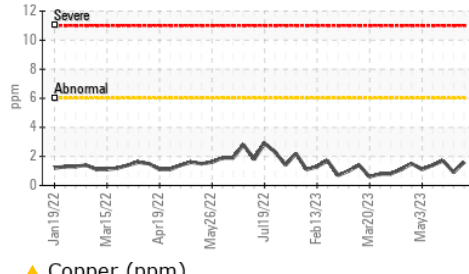
Viscosity @ 100°C



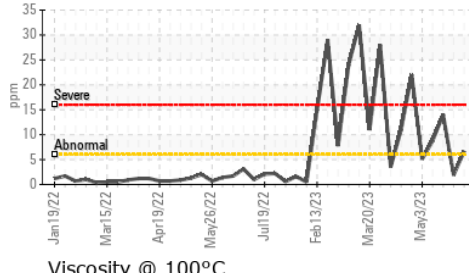
Iron (ppm)



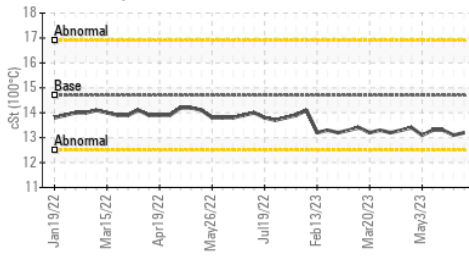
Aluminum (ppm)



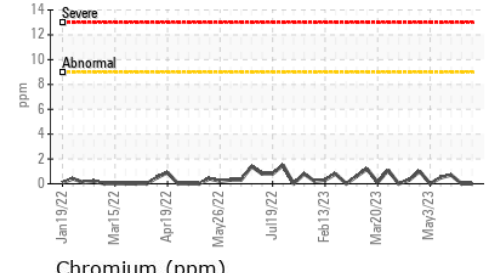
▲ Copper (ppm)



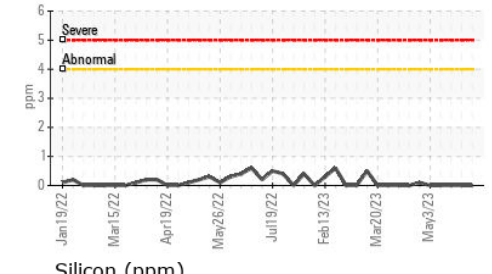
Viscosity @ 100°C



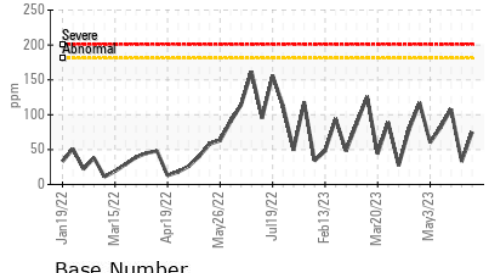
Lead (ppm)



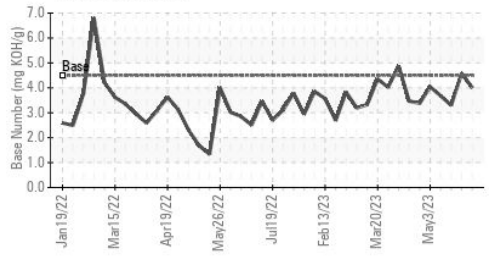
Chromium (ppm)



Silicon (ppm)



Base Number



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0817831 **Received** : 01 Jun 2023
Lab Number : **02561196** **Diagnosed** : 02 Jun 2023
Unique Number : 5590237 **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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