



OIL ANALYSIS REPORT

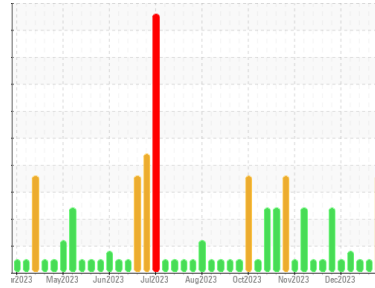


Machine Id
LIDM06BE (S/N G2J-00165)

Component
Biogas Engine

Fluid
CHEVRON HDAX 9500 GAS ENGINE OIL 40 (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 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		WC0874486	WC0874461	WC0874477
Sample Date	Client Info		22 Jan 2024	15 Jan 2024	08 Jan 2024
Machine Age	Client Info		96278	25888	25722
Oil Age	Client Info		704	533	367
Oil Changed	Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status			ABNORMAL	NORMAL	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	5	5
Chromium	ppm ASTM D5185(m)	>4	0	0	0
Nickel	ppm ASTM D5185(m)	>2	0	0	0
Titanium	ppm ASTM D5185(m)		0	0	0
Silver	ppm ASTM D5185(m)	>5	0	0	0
Aluminum	ppm ASTM D5185(m)	>6	3	3	2
Lead	ppm ASTM D5185(m)	>9	<1	<1	<1
Copper	ppm ASTM D5185(m)	>6	2	3	3
Tin	ppm ASTM D5185(m)	>4	2	2	2
Antimony	ppm ASTM D5185(m)		2	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)		4	4	4
Barium	ppm ASTM D5185(m)		0	0	0
Molybdenum	ppm ASTM D5185(m)		1	1	1
Manganese	ppm ASTM D5185(m)		0	0	0
Magnesium	ppm ASTM D5185(m)		16	17	18
Calcium	ppm ASTM D5185(m)		1812	1822	1715
Phosphorus	ppm ASTM D5185(m)		264	266	249
Zinc	ppm ASTM D5185(m)		314	312	296
Sulfur	ppm ASTM D5185(m)		2914	2886	2539
Lithium	ppm ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m)	>181	100	95	77
Sodium	ppm ASTM D5185(m)		1	2	2
Potassium	ppm ASTM D5185(m)	>20	2	2	2

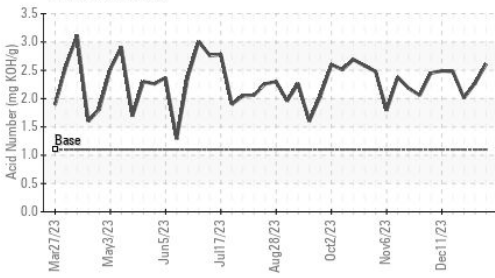
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	% ASTM D7844*		0	0	0
Nitration	Abs/cm ASTM D7624*	>20	5.4	5.3	5.2
Sulfation	Abs./1mm ASTM D7415*	>30	23.6	23.1	21.5

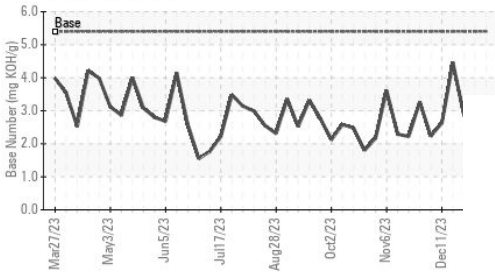


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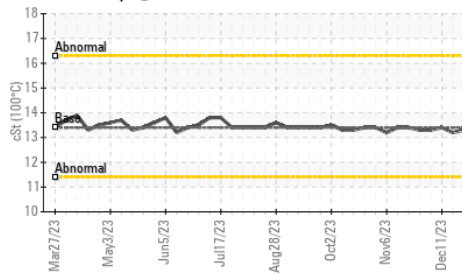
▲ Acid Number



▲ Base Number



Viscosity @ 100°C



FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.0	12.5
Acid Number (AN)	mg KOH/g	ASTM D974*	1.1	▲ 2.61	2.27
Base Number (BN)	mg KOH/g	ASTM D2896*	5.4	▲ 1.86	2.69
i-pH	Scale 0-14	ASTM D7946*	<4.5	▲ 4.43	4.89

VISUAL

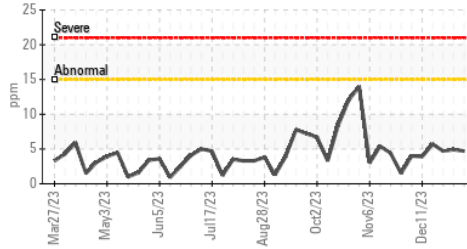
	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES

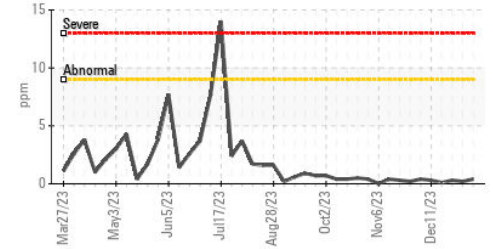
	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	13.4	13.4	13.3

GRAPHS

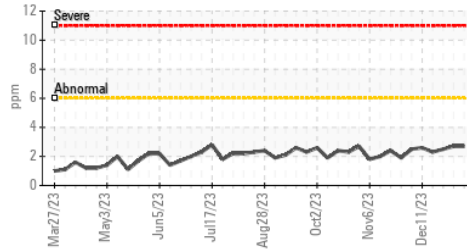
Iron (ppm)



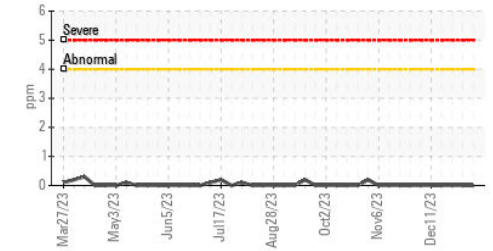
Lead (ppm)



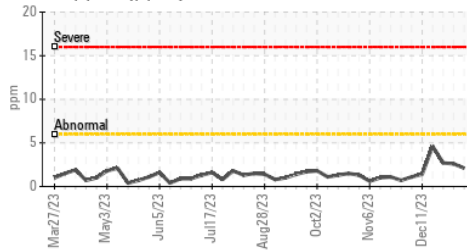
Aluminum (ppm)



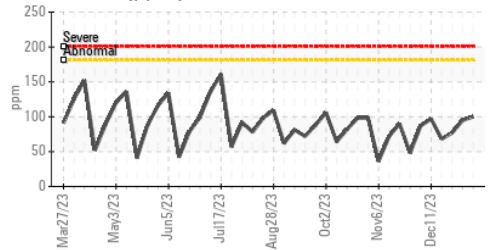
Chromium (ppm)



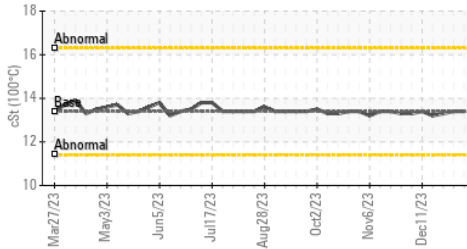
Copper (ppm)



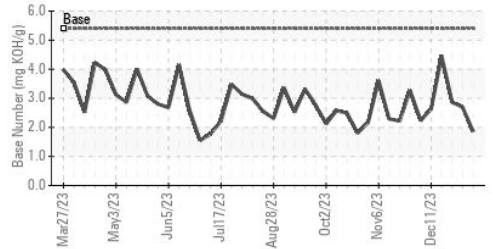
Silicon (ppm)



Viscosity @ 100°C



▲ Base Number



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0874486 **Received** : 23 Jan 2024
Lab Number : 02610554 **Diagnosed** : 26 Jan 2024
Unique Number : 5711640 **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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