

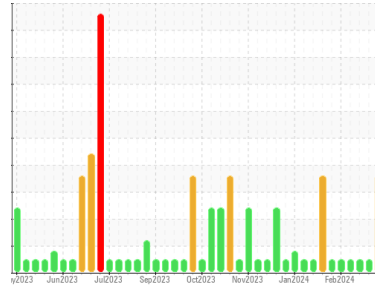


OIL ANALYSIS REPORT



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	WC0904362	WC0904357	WC0874443
Sample Date	Client Info	11 Mar 2024	04 Mar 2024	26 Feb 2024
Machine Age	hrs	27030	26864	26695
Oil Age	hrs	425	259	90
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	4	3	3
Chromium	ppm ASTM D5185(m) >4	0	0	0
Nickel	ppm ASTM D5185(m) >2	<1	0	<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	2
Lead	ppm ASTM D5185(m) >9	0	0	<1
Copper	ppm ASTM D5185(m) >6	1	1	<1
Tin	ppm ASTM D5185(m) >4	2	1	<1
Antimony	ppm ASTM D5185(m)	2	2	<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)	4	4	4
Barium	ppm ASTM D5185(m)	0	0	0
Molybdenum	ppm ASTM D5185(m)	1	1	2
Manganese	ppm ASTM D5185(m)	0	0	0
Magnesium	ppm ASTM D5185(m)	13	12	12
Calcium	ppm ASTM D5185(m)	1777	1772	1745
Phosphorus	ppm ASTM D5185(m)	249	250	250
Zinc	ppm ASTM D5185(m)	302	291	289
Sulfur	ppm ASTM D5185(m)	3146	2731	2031
Lithium	ppm ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >181	76	61	34
Sodium	ppm ASTM D5185(m)	<1	<1	<1
Potassium	ppm ASTM D5185(m) >20	6	2	2

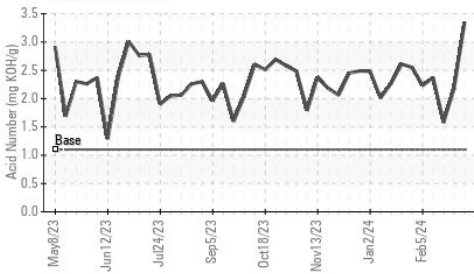
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844*	0	0	0
Nitration	Abs/cm ASTM D7624*	5.0	4.9	4.9
Sulfation	Abs.1mm ASTM D7415*	23.4	21.1	17.9

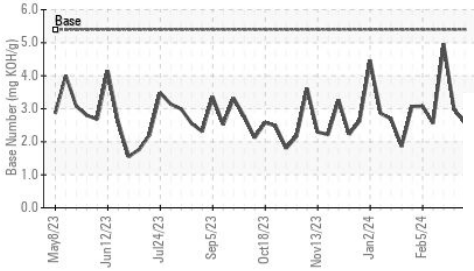


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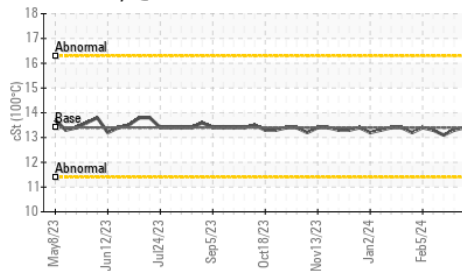
▲ Acid Number



▲ Base Number



Viscosity @ 100°C



FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.2	10.6	8.8
Acid Number (AN)	mg KOH/g	ASTM D974*	1.1	▲ 3.35	2.18	1.58
Base Number (BN)	mg KOH/g	ASTM D2896*	5.4	▲ 2.59	2.98	4.96
i-pH	Scale 0-14	ASTM D7946*	<4.5	▲ 4.14	5.03	5.69

VISUAL

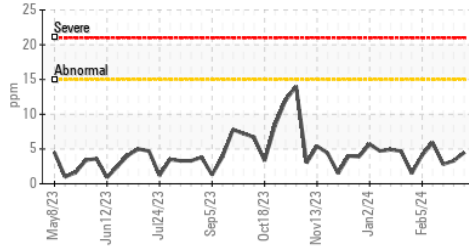
	method	limit/base	current	history1	history2	
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES

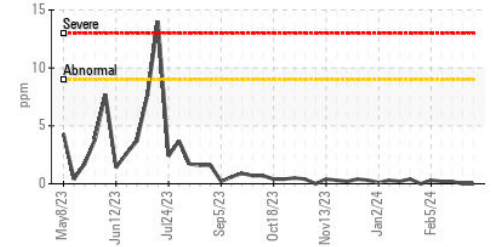
	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	13.4	13.4	13.3	13.1

GRAPHS

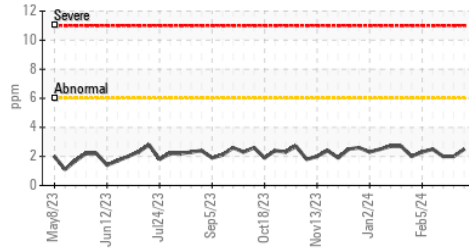
Iron (ppm)



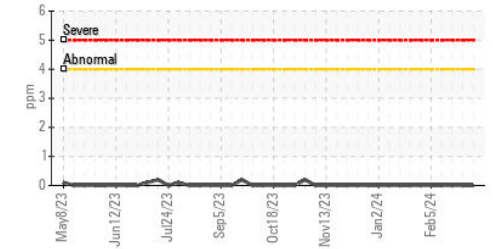
Lead (ppm)



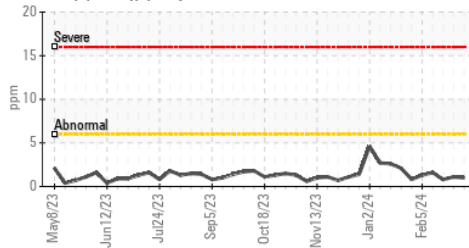
Aluminum (ppm)



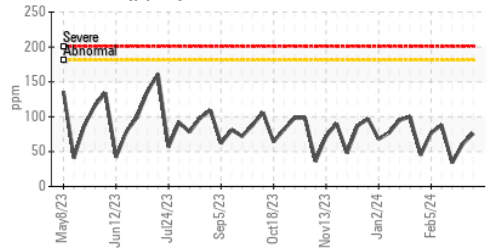
Chromium (ppm)



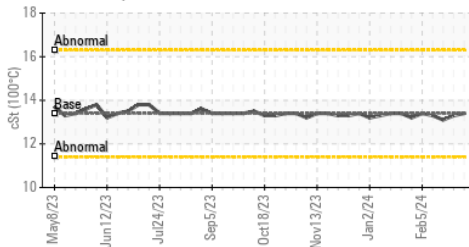
Copper (ppm)



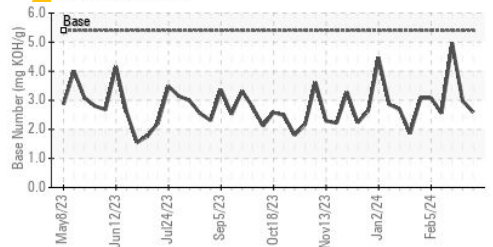
Silicon (ppm)



Viscosity @ 100°C



▲ Base Number



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
 Sample No. : WC0904362 Received : 13 Mar 2024
 Lab Number : 02621754 Tested : 13 Mar 2024
 Unique Number : 5746873 Diagnosed : 14 Mar 2024 - 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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