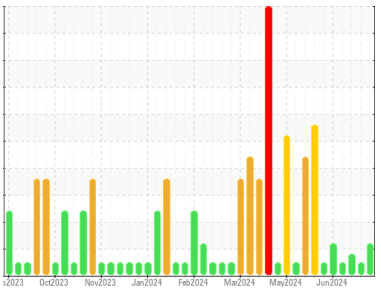
OIL ANALYSIS REPORT

Sample Rating Trend



PH

Machine Id
LIDM07BE (S/N GZJ00166)
Component
Biogas Engine
Fluid
CHEVRON HDAX 9500 GAS ENGINE OIL 40 (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 i-pH est anormalement bas. Le résultat pour le BN indique que la réserve d'alcalinité est acceptable pour l`huile. Le AN est acceptable pour ce fluide. l`huile ne peut plus être utilisée.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0954793**	WC0954690	WC0904265
Sample Date		Client Info		**15 Jul 2024**	08 Jul 2024	02 Jul 2024
Machine Age	hrs	Client Info		**30251**	30087	29974
Oil Age	hrs	Client Info		**555**	391	278
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**ABNORMAL**	NORMAL	ATTENTION

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	**<1.0**	<1.0	<1.0
Water		WC Method		**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>14	**7**	7	10
Chromium	ppm	ASTM D5185(m)	>3	**<1**	<1	<1
Nickel	ppm	ASTM D5185(m)		**<1**	<1	<1
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)		**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>5	**3**	3	3
Lead	ppm	ASTM D5185(m)	>8	**0**	0	0
Copper	ppm	ASTM D5185(m)	>5	**3**	2	2
Tin	ppm	ASTM D5185(m)	>3	**3**	2	2
Antimony	ppm	ASTM D5185(m)		**4**	2	2
Vanadium	ppm	ASTM D5185(m)		**<1**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

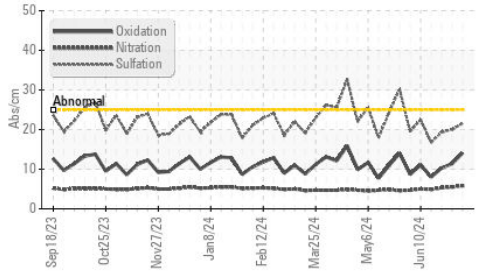
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**6**	6	6
Barium	ppm	ASTM D5185(m)		**<1**	0	0
Molybdenum	ppm	ASTM D5185(m)		**5**	5	5
Manganese	ppm	ASTM D5185(m)		**<1**	<1	<1
Magnesium	ppm	ASTM D5185(m)		**10**	10	9
Calcium	ppm	ASTM D5185(m)		**1873**	1740	1706
Phosphorus	ppm	ASTM D5185(m)		**238**	244	234
Zinc	ppm	ASTM D5185(m)		**324**	303	295
Sulfur	ppm	ASTM D5185(m)		**2496**	2401	2338
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>180	**122**	104	93
Sodium	ppm	ASTM D5185(m)	>20	**4**	2	1
Potassium	ppm	ASTM D5185(m)	>20	**4**	3	3

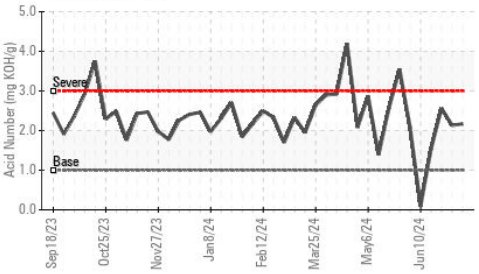
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		**0**	0	0
Nitration	Abs/cm	ASTM D7624*		**5.8**	5.5	5.3
Sulfation	Abs/.1mm	ASTM D7415*		**21.6**	20.0	19.3

OIL ANALYSIS REPORT

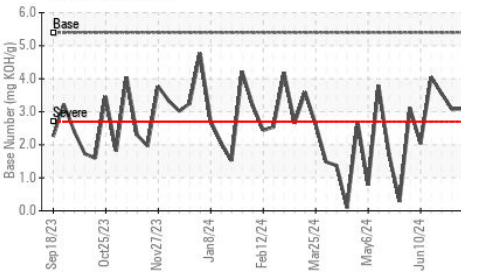
FT-IR (Direct Trend)



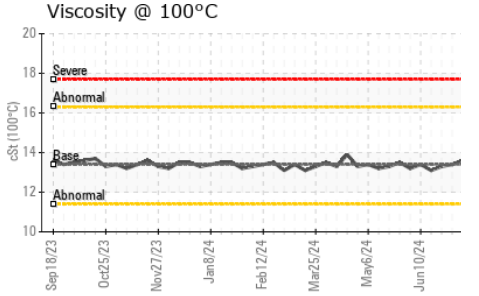
Acid Number



Base Number



Viscosity @ 100°C



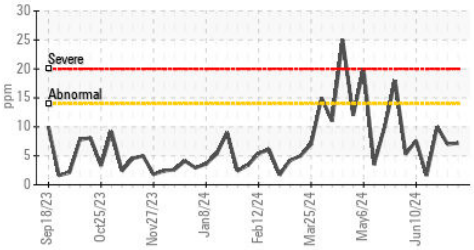
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*		**14.1**	11.4	10.3
Acid Number (AN)	mg KOH/g	ASTM D974*	1.0	**2.17**	2.13	2.56
Base Number (BN)	mg KOH/g	ASTM D2896*	5.4	**3.09**	3.08	3.55
i-pH	Scale 0-14	ASTM D7946*	<4.5	▲ **4.35**	4.96	4.99

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

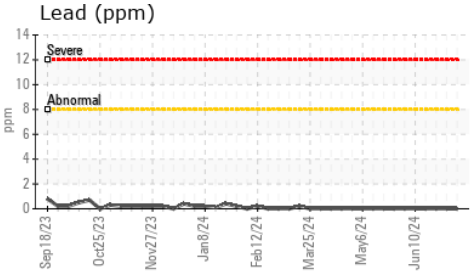
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	13.4	**13.6**	13.4	13.3

GRAPHS

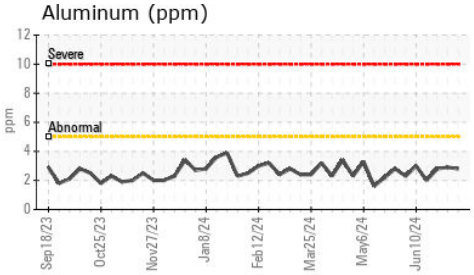
Iron (ppm)



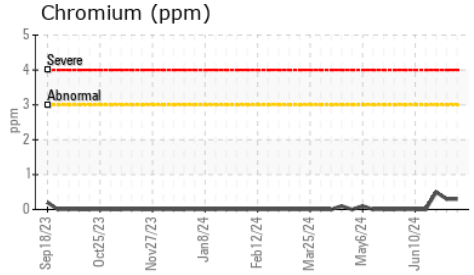
Lead (ppm)



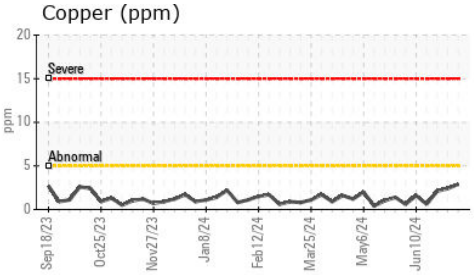
Aluminum (ppm)



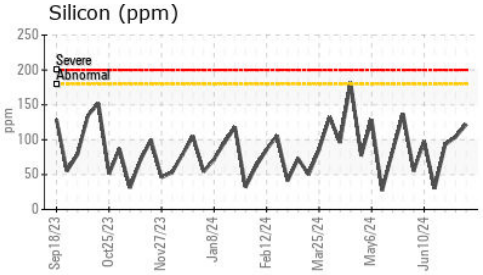
Chromium (ppm)



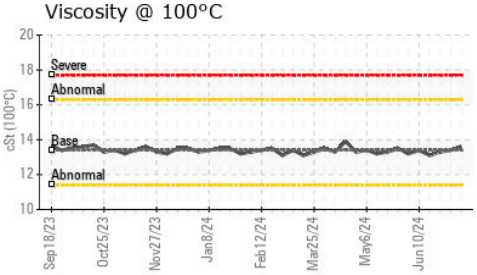
Copper (ppm)



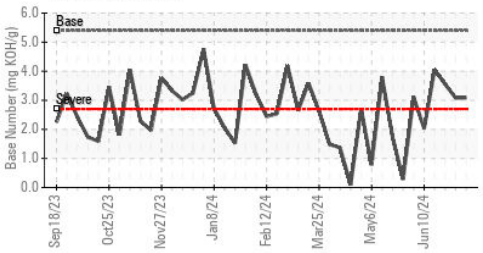
Silicon (ppm)



Viscosity @ 100°C



Base Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0954793 **Received** : 16 Jul 2024
Lab Number : 02648097 **Tested** : 19 Jul 2024
Unique Number : 5813649 **Diagnosed** : 19 Jul 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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Report Id: LYDLAC [WCAMIS] 02648097 (Generated: 07/19/2024 09:17:46) Rev: 1

Submitted By: Simon Giroux