

OIL ANALYSIS REPORT



lachine lo DECM02BE (S/N 4EK00128) Component

Biogas Engine

CHEVRON HDAX 6500 LFG GAS ENGINE OIL (100 GAL)

Sample Number

Sample Date

Machine Age

Oil Changed

Sample Status

CONTAMINATION

WEAR METALS

Oil Age

Water

Glycol

Iron

Nickel

Silver

Lead

Tin

Copper

Vanadium

Cadmium

Boron

Barium

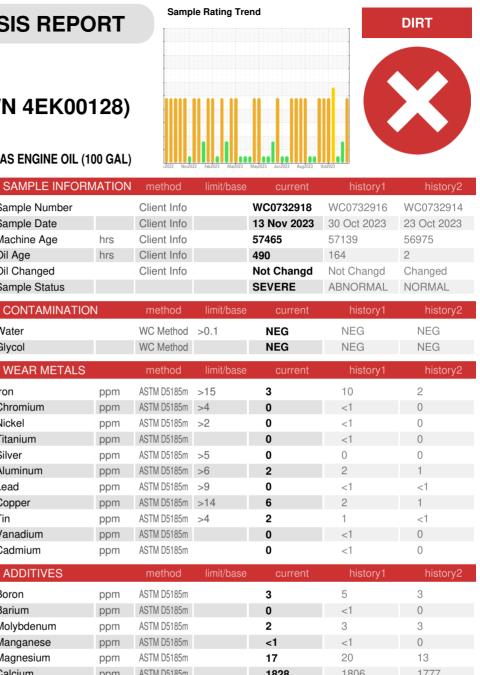
ADDITIVES

Molybdenum

Titanium

Aluminum

Chromium



Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		17	20	13
Calcium	ppm	ASTM D5185m		1828	1806	1777
Phosphorus	ppm	ASTM D5185m		213	301	281
Zinc	ppm	ASTM D5185m		343	385	342
Sulfur	ppm	ASTM D5185m		2221	2608	1731
CONTAMINANTS			11 1. 1			
OONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		current	history1	history2 109
					,	· · · · ·
Silicon	ppm	ASTM D5185m	>181	260	,	109
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>181 >20	260 3	▲ 186	109 2

INFRA-RED		method	limit/base	current	nistory i	nistory2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	6.6	6.1	5.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	18.0	17.2
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
FLUID DEGRADA Oxidation	TION Abs/.1mm	method *ASTM D7414		current 13.0	history1 11.4	history2 9.7
		*ASTM D7414	>25		,	

DIAGNOSIS

Recommendation

We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal.

Fluid Condition

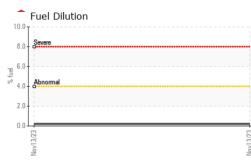
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid.

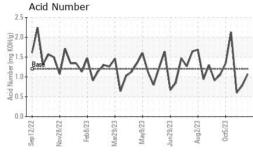
Submitted By: JEFF SUMMERS

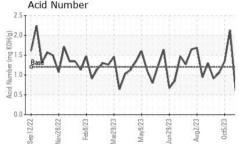


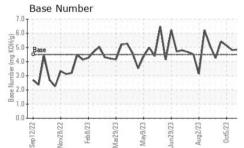
OIL ANALYSIS REPORT

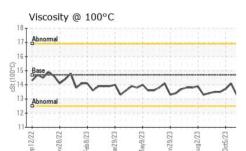
VISUAL

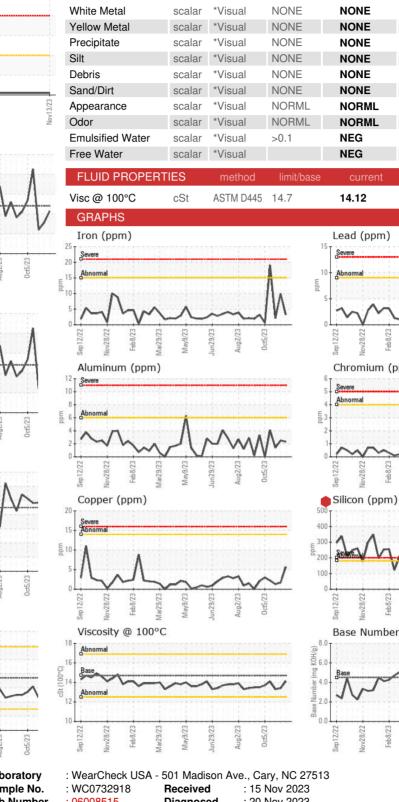


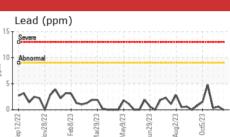












NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NFG

NEG

13.4

NONE

NONE

NONE

NONE

NONE

NONE

NORML

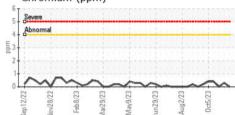
NORML

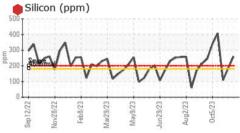
NEG

NEG

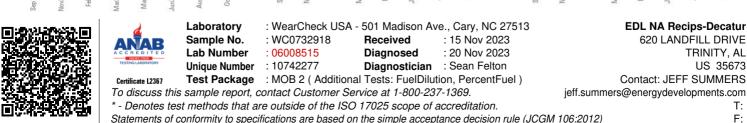
13.3

Chromium (ppm)





Feb8/23 un29/23 Aug2/23 Aar29/23



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)