

OIL ANALYSIS REPORT

Sample Rating Trend

(YA150042) 3843C

Component **Natural Gas Engine** CHEVRON DELO 400 NG (46 GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

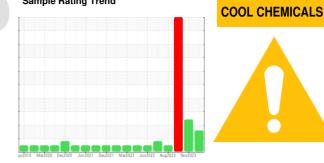
All component wear rates are normal.

Contamination

Sodium and/or potassium levels remain high. There is a moderate amount of visible silt present in the sample. Test for glycol is negative.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

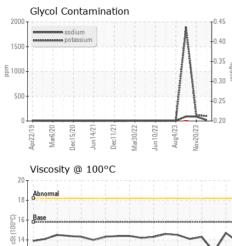


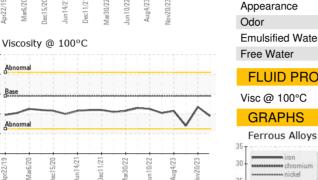
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0090014	GFL0099792	GFL0089984
Sample Date		Client Info		05 Mar 2024	20 Nov 2023	07 Nov 2023
Machine Age	hrs	Client Info		1466	1466	7641
Oil Age	hrs	Client Info		0	7641	7641
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	10	31	10
Chromium	ppm	ASTM D5185m	>4	0	2	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	3	1
Lead	ppm	ASTM D5185m	>30	0	22	8
Copper	ppm	ASTM D5185m	>35	6	2	1 29
Tin	ppm	ASTM D5185m	>4	<1	<1	<u> </u>
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		29	10	28
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		52	61	43
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		566	670	532
Calcium	ppm	ASTM D5185m		1475	1889	1435
Phosphorus	ppm	ASTM D5185m	800	763	920	750
Zinc	ppm	ASTM D5185m	880	902	1147	950
Sulfur	ppm	ASTM D5185m		2276	2657	2303
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	8	10	7
Sodium	ppm	ASTM D5185m		18	<u> </u>	91
Potassium	ppm		>20	<mark>/</mark> 99	1 16	1 879
Glycol	%	*ASTM D2982				▲ 0.20
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	9.6	12.8	8.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	28.7	19.6
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	24.5	15.7
Base Number (BN)	mg KOH/g	ASTM D2896	6.1	6.5	3.5	14.0

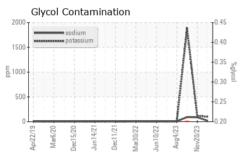


12

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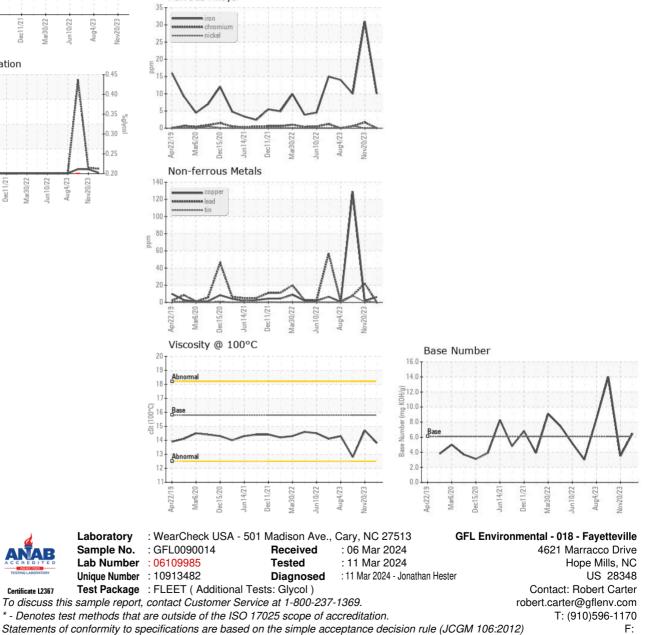






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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	A MODER	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.8	13.8	14.7	12.8
GRAPHS						



Certificate L2367