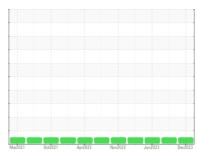


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **525021-727**

Component

Diesel Engine

CHEVRON DELO 400 XLE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

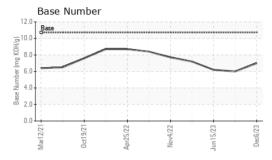
Fluid Condition

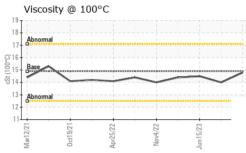
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Mar2021	Oct2021 Apr2022	Nov2022 Jun2023	Dec2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0096109	GFL0084497	GFL0060780
Sample Date		Client Info		06 Dec 2023	18 Sep 2023	15 Jun 2023
Machine Age	hrs	Client Info		21943	21308	0
Oil Age	hrs	Client Info		635	1281	605
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	33	46	48
Chromium	ppm	ASTM D5185m	>20	2	3	4
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		12	14	15
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	0	3
Lead	ppm	ASTM D5185m	>40	20	20	17
Copper	ppm	ASTM D5185m	>330	1	2	2
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		74	52	46
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		57	59	50
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		823	844	859
Calcium	ppm	ASTM D5185m		1387	1826	1871
Phosphorus	ppm	ASTM D5185m	760	775	857	807
Zinc	ppm	ASTM D5185m	830	881	1022	970
Sulfur	ppm	ASTM D5185m	2770	3078	3809	3850
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	10	12
Sodium	ppm	ASTM D5185m		4	11	14
Potassium	ppm	ASTM D5185m	>20	4	9	7
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	12.3	12.6	12.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.0	27.2	27.4
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.1	23.4	23.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	7.0	6.0	6.2



OIL ANALYSIS REPORT

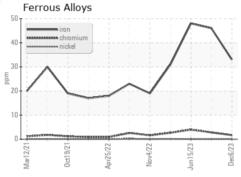


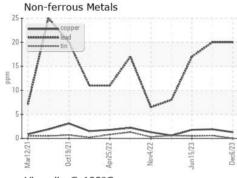


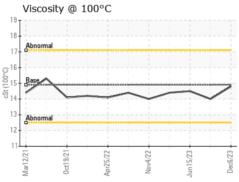
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

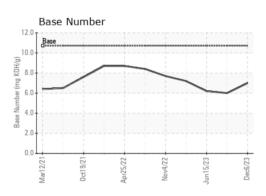
FLUID PROPI	ERIIES	memoa			riistory i	History
Visc @ 100°C	cSt	ASTM D445	14.9	14.8	14.0	14.5

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10779968

: GFL0096109 : 06030177 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 11 Dec 2023

Diagnosed : 13 Dec 2023 Diagnostician : Don Baldridge GFL Environmental - 629 - Northern A1

3947 US 131 N Kalkaska, MI

US 49646-8428 Contact: MITCH HERSHBERGER

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

T: (231)624-0848 F: