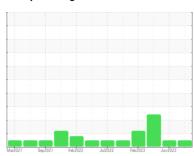


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **728022-1149**

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

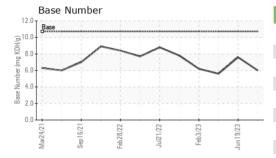
Fluid Condition

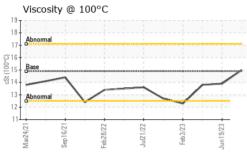
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Mar2021	Sep2021 Feb2022	Jul2022 Feb2023 Ju	n2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0064424	GFL0064377	GFL0064499
Sample Date		Client Info		11 Sep 2023	19 Jun 2023	01 Apr 2023
Machine Age	hrs	Client Info		15450	14630	14630
Oil Age	hrs	Client Info		425	280	0
Oil Changed		Client Info		Not Changd	N/A	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<u>^</u> 2.6
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	79	55	63
Chromium	ppm	ASTM D5185m	>5	2	1	2
Nickel	ppm	ASTM D5185m	>2	2	<1	2
Titanium	ppm	ASTM D5185m		8	5	11
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	8	7	5
Lead	ppm	ASTM D5185m	>30	<1	0	0
Copper	ppm	ASTM D5185m	>150	2	<1	2
Tin	ppm	ASTM D5185m	>5	- <1	0	_ <1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		64	155	83
Barium	ppm	ASTM D5185m		0	4	0
Molybdenum	ppm	ASTM D5185m		83	81	65
Manganese	ppm	ASTM D5185m		1	<1	1
Magnesium	ppm	ASTM D5185m		801	578	702
Calcium	ppm	ASTM D5185m		1855	1355	1720
Phosphorus	ppm	ASTM D5185m	760	782	595	709
Zinc	ppm	ASTM D5185m	830	975	750	896
Sulfur	ppm	ASTM D5185m	2770	3631	2702	3095
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	18	16	<u> </u>
Sodium	ppm	ASTM D5185m	720	9	6	8
Potassium	ppm	ASTM D5185m	>20	7	3	5
INFRA-RED	ррпп					
	0/	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.8	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	13.4	10.6	11.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.9	23.6	23.1
FLUID DEGRADATION method limit/base current history1 history2						
					· · · · · · · · · · · · · · · · · · ·	
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.4	20.7	21.5
Oxidation Base Number (BN)					•	21.5 5.6



OIL ANALYSIS REPORT

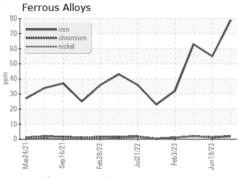


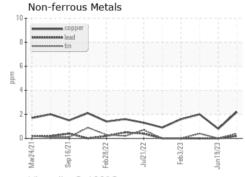


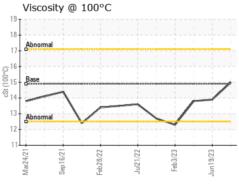
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

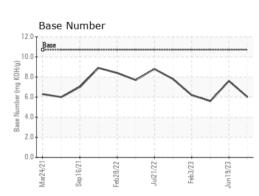
FLUID PROP	ERITES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	14.9	15.0	13.9	13.8

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10649264 Test Package : FLEET

: GFL0064424 : 05953305

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Sep 2023 Diagnosed : 20 Sep 2023

Diagnostician : Don Baldridge

GFL Environmental - 624 - Elmira Hauling

10164 M-32 Elmira, MI US 49730

Contact: KEITH CAMPBELL

kcampbell@gflenv.com T:

* - 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)

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