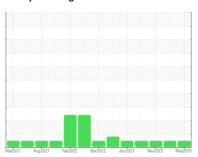


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **929021-1275**

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

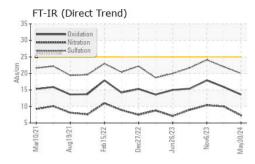
Fluid Condition

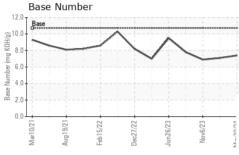
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

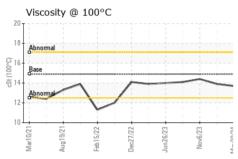
Mar2021 Aug2021 Feb2022 Dec2022 Jun2023 Nov2023 May2024						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0104706	GFL0104657	GFL0096238
Sample Date		Client Info		30 May 2024	06 Mar 2024	06 Nov 2023
Machine Age	hrs	Client Info		11169	10738	10013
Oil Age	hrs	Client Info		0	10013	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	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 METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	13	10	21
Chromium	ppm	ASTM D5185m	>20	<1	1	1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		6	10	5
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	4	5
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m		<1	0	<1
Tin	ppm	ASTM D5185m	>15	0	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		252	92	117
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		60	54	94
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		531	697	650
Calcium	ppm	ASTM D5185m		1489	1488	1522
Phosphorus	ppm	ASTM D5185m	760	835	720	669
Zinc	ppm	ASTM D5185m	830	958	813	859
Sulfur	ppm	ASTM D5185m	2770	3477	3355	2596
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	4	5
Sodium	ppm	ASTM D5185m	00	3	4	5
Potassium	ppm	ASTM D5185m		3	7	10
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	1.3	1.2
		*ASTM D7624	>20	7.3	10.0	10.4
Nitration	Abs/cm				00.5	0.4.4
Nitration Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	22.0	24.1
Nitration	Abs/.1mm	*ASTM D7415	>30 limit/base	20.0 current	22.0 history1	24.1 history2
Nitration Sulfation	Abs/.1mm	*ASTM D7415	limit/base			



OIL ANALYSIS REPORT



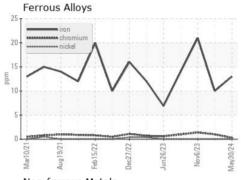


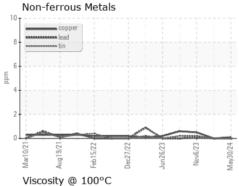


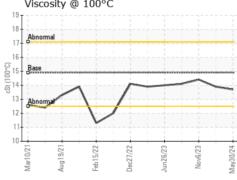
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

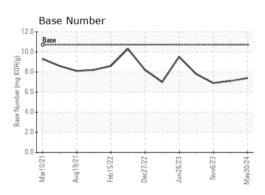
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	14.9	13.7	13.9	14.4	

GRAPHS













Certificate 12367

Laboratory Sample No. Unique Number : 11060925

: GFL0104706 Lab Number : 06198802

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

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 04 Jun 2024

Tested : 05 Jun 2024 Diagnosed : 05 Jun 2024 - Wes Davis

10164 M-32 Elmira, MI

GFL Environmental - 624 - Elmira Hauling

US 49730 Contact: ANDY GROBASKI andyg@americanwaste.org T: (989)370-2941

* - 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)