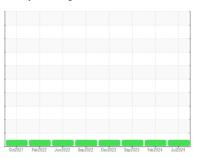


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 125012-835

Component **Diesel Engine**

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil

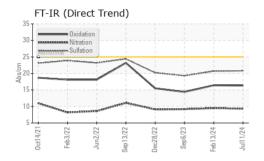
Fluid Condition

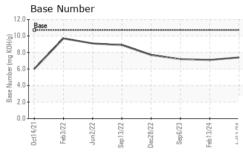
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

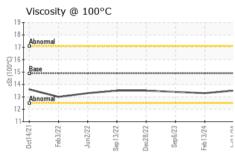
		Oct2021 F	eb2022 Jun2022 Sep20	22 Dec2022 Sep2023 Feb2024	Jul2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0122749	GFL0096086	GFL0084507
Sample Date		Client Info		11 Jul 2024	13 Feb 2024	06 Sep 2023
Machine Age	hrs	Client Info		17806	17155	16345
Oil Age	hrs	Client Info		651	810	604
Oil Changed		Client Info		Changed	Changed	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 METALS metho		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	11	8	8
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		9	11	12
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	4	3
Lead	ppm	ASTM D5185m	>40	0	1	0
Copper	ppm	ASTM D5185m	>330	6	5	4
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		192	125	121
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		62	52	48
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		612	662	766
Calcium	ppm	ASTM D5185m		1551	1420	1612
Phosphorus	ppm	ASTM D5185m	760	857	748	753
Zinc	ppm	ASTM D5185m	830	948	877	916
Sulfur	ppm	ASTM D5185m	2770	3525	2972	3912
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	10	16
Sodium	ppm	ASTM D5185m		3	2	1
Potassium	ppm	ASTM D5185m	>20	3	4	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.3	9.5	9.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	20.7	19.3
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	16.4	14.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	7.4	7.1	7.2

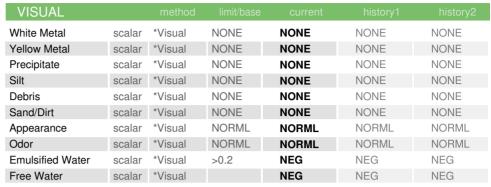


OIL ANALYSIS REPORT



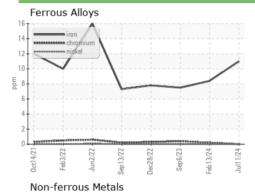


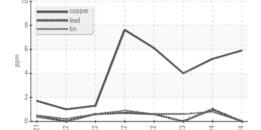


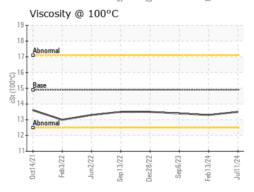


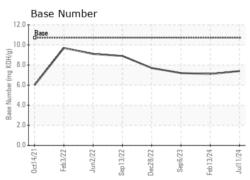
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	14.9	13.5	13.3	13.4

GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06235498

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0122749

Unique Number : 11124332 Test Package : FLEET

Received : 15 Jul 2024

Tested : 15 Jul 2024 Diagnosed : 15 Jul 2024 - Wes Davis

Kalkaska, MI US 49646-8428 Contact: MITCH HERSHBERGER

GFL Environmental - 629 - Northern A1

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:

3947 US 131 N