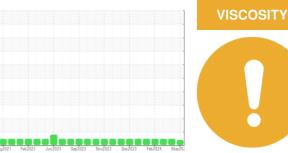


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

929054-182539

**Diesel Engine** 

CHEVRON DELO 400 MULTIGRADE 15W40 (--- LTR)

## DIAGNOSIS

### Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

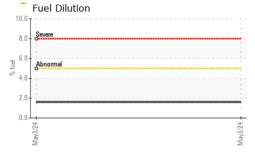
#### Fluid Condition

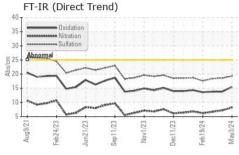
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

U ( LTR) w <sub>2</sub> 2021 Feb 2023 Jun 2023 Sep 2023 Nov 2023 Feb 2024 May 201						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0113741	GFL0113740	GFL0113731
Sample Date		Client Info		03 May 2024	29 Apr 2024	11 Apr 2024
Machine Age	hrs	Client Info		12502	0	12375
Oil Age	hrs	Client Info		1645	0	1518
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				ATTENTION	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
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	>110	9	4	5
Chromium	ppm	ASTM D5185m	>4	0	0	0
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	5	3	2
Lead	ppm	ASTM D5185m	>45	1	0	<1
Copper	ppm	ASTM D5185m	>85	0	0	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	151	6	6	5
Barium	ppm	ASTM D5185m	0.4	0	0	0
Molybdenum	ppm	ASTM D5185m	250	62	73	68
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	0	838	879	857
Calcium	ppm	ASTM D5185m	2046	995	1040	1031
Phosphorus	ppm	ASTM D5185m	1043	924	979	958
Zinc	ppm	ASTM D5185m	943	1122	1162	1119
Sulfur	ppm	ASTM D5185m	5012	2834	3188	3256
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	8	3	2
Sodium	ppm	ASTM D5185m		6	22	11
Potassium	ppm	ASTM D5185m	>20	4	2	24
Fuel	%	ASTM D3524	>5	1.6	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.2	7.2	6.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	18.6	18.4
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	13.8	13.8
Base Number (BN)	mg KOH/g	ASTM D2896	12.5	6.2	7.7	7.9
= 3.55 · (214)	99			V.=		

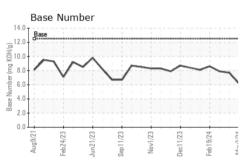


# **OIL ANALYSIS REPORT**





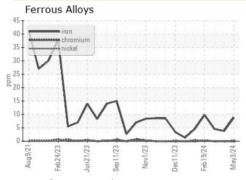


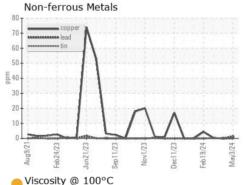


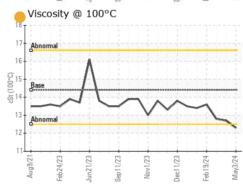
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

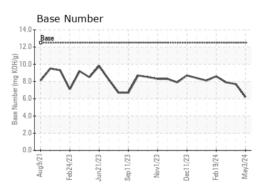
FLUID PROPE	ERITES					
Visc @ 100°C	cSt	ASTM D445	14.4	12.3	12.7	12.8

### **GRAPHS**













Certificate 12367

Laboratory Sample No.

Lab Number : 06175180

: GFL0113741

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** Unique Number : 11021233

: 10 May 2024 : 15 May 2024 Diagnosed

: 15 May 2024 - Don Baldridge Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

1130 County Line Rd

Contact: Jonathan Williams jonathan.williams@gflenv.com

GFL environmental - 867 - Trafford (Blount Hauling)

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)

Report Id: GFL867 [WUSCAR] 06175180 (Generated: 05/15/2024 19:18:02) Rev: 1

Submitted By: GFL166,GFL172,GFL180,GFL867,GFL868,GFL955 - Chelsea Bryan

Trafford, AL

US 35172

T:

F: