

OIL ANALYSIS REPORT

GFL035 2634

Component **Diesel Engine**

CHEVRON DELO 400 SDE SAE 15W40 (40 QTS)

Sample Rating Trend



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

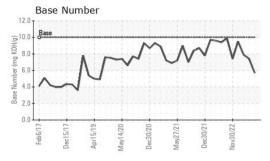
Fluid Condition

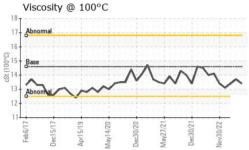
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		12017 Dec20	17 Apr2019 May2020	Dec2020 May2021 Dec2021 I	Vov2022	
SAMPLE INFORM	/ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0085149	GFL0071565	GFL0071542
Sample Date		Client Info		09 Nov 2023	15 Aug 2023	24 May 2023
Machine Age	hrs	Client Info		9999	9999	9999
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	3	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>165	25	18	16
Chromium	ppm	ASTM D5185m	>5	1	<1	1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	3	3
Lead	ppm	ASTM D5185m	>150	5	2	2
Copper	ppm	ASTM D5185m	>90	<1	<1	<1
Tin	ppm	ASTM D5185m	>5	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		3	<1	4
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		67	65	68
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		957	1038	1044
Calcium	ppm	ASTM D5185m		1180	1172	1216
Phosphorus	ppm	ASTM D5185m	760	1078	1066	1137
Zinc	ppm	ASTM D5185m	800	1291	1322	1374
Sulfur	ppm	ASTM D5185m	3000	2729	3598	3686
CONTAMINAN [*]	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	9	8	7
Sodium	ppm	ASTM D5185m		7	6	6
Potassium	ppm	ASTM D5185m	>20	3	3	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.6	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	11.9	10.7	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.8	21.7	21.3
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.5	18.9	17.8
Base Number (BN)	mg KOH/g	ASTM D2896		5.7	7.4	7.9
	99					



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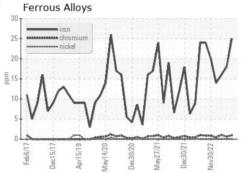


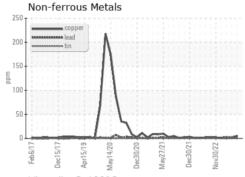


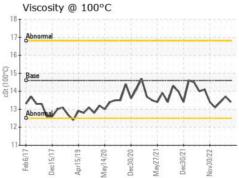
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

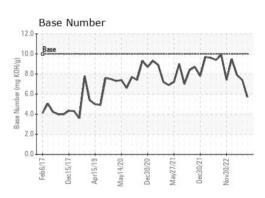
FLUID PROPE	RHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	14.6	13.4	13.7	13.4

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0085149 : 06003959 : 10737721

Received : 10 Nov 2023 Diagnosed : 14 Nov 2023 Diagnostician : Don Baldridge GFL Environmental - 035 - Greensboro

1236 Elon Place High Point, NC US 27263

Contact: JORGE COSTA jorge.costa@gflenv.com T: (336)668-3712

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)

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