

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

429023-1256

Component Diesel Engine Fluid 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.

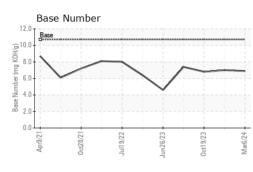
Fluid Condition

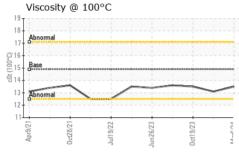
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Apr2021	0ct2021 Jul2022	Jun2023 Oct2023	Mar2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date Machine Age	hrs	Client Info Client Info Client Info		GFL0104597 06 Mar 2024 11264	GFL0096279 30 Dec 2023 10908	GFL0096253 19 Oct 2023 226345
Oil Age Oil Changed Sample Status	hrs	Client Info Client Info		226345 N/A NORMAL	600 Changed NORMAL	0 Changed NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel Water Glycol		WC Method WC Method WC Method	>2.0 >0.2	<1.0 NEG NEG	<1.0 NEG NEG	<1.0 NEG NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron Chromium Nickel	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>100 >20 >4	3 <1 0	13 <1 <1	16 1 <1
Titanium Silver Aluminum Lead	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>3 >20 >40	10 0 2 0	6 <1 3 2	11 0 4 1
Copper Tin Vanadium	ppm ppm ppm		>330 >15	0 0 0	<1 <1 <1	<1 <1 <1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		153 0 54 <1	195 0 88 <1	79 0 57 <1
Magnesium Calcium Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	760	679 1506 737	746 1597 811	707 1489 793
Zinc Sulfur CONTAMINAN	ppm ppm TS	ASTM D5185m ASTM D5185m method	830 2770 limit/base	833 3328 current	966 3037 history1	864 3293 history2
Silicon Sodium Potassium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		4 3 2	6 4 2	5 5 6
INFRA-RED	ppm	method	>20 limit/base	current	∠ history1	history2
Soot % Nitration	% Abs/cm	*ASTM D7844 *ASTM D7624	>3 >20	0.3 9.6	0.4 10.2	0.6 11.4
Sulfation	Abs/.1mm	*ASTM D7415 method	>30 limit/base	19.7 current	22.5 history1	22.9 history2
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25 10.7	14.9 6.9	17.1 7.0	18.1 6.8

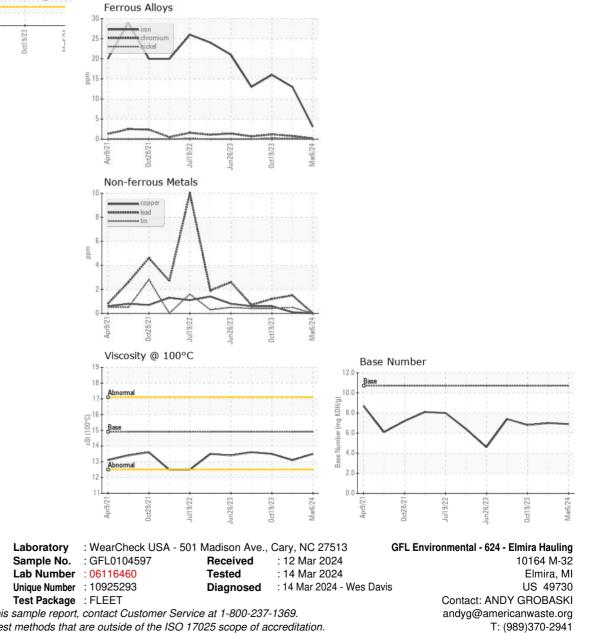


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.9	13.5	13.1	13.5
GRAPHS						





Certificate L2367 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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