

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id
712049
Component
Diesel Engine
Fluid

CHEVRON DELO 400 XLE 15W40 (10 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

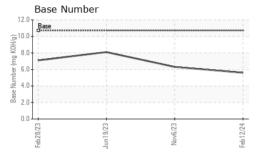
Fluid Condition

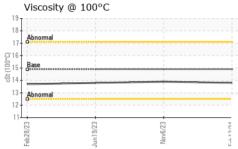
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

LE 15W40 (10 (GAL)	Feb202	3 Jun2023	Nov2023 Fe	b2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0096242	GFL0096237	GFL0064371
Sample Date		Client Info		12 Feb 2024	06 Nov 2023	19 Jun 2023
Machine Age	hrs	Client Info		4244	3649	2619
Dil Age	hrs	Client Info		3649	0	172
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
- uel		WC Method	>3.0	<1.0	<1.0	<1.0
Nater		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	8	8	2
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>5	3	4	<1
Γitanium	ppm	ASTM D5185m	>2	10	10	4
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	3
_ead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Γin	ppm	ASTM D5185m	>15	<1	<1	0
/anadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		69	63	205
Barium	ppm	ASTM D5185m		0	0	4
Molybdenum	ppm	ASTM D5185m		47	48	77
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		626	663	538
Calcium	ppm	ASTM D5185m		1353	1433	1306
Phosphorus	ppm	ASTM D5185m	760	610	672	565
Zinc	ppm	ASTM D5185m	830	767	837	711
Sulfur	ppm	ASTM D5185m	2770	2596	2728	2635
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	5	4
Sodium	ppm	ASTM D5185m		4	4	2
Potassium	ppm	ASTM D5185m	>20	2	3	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.6	0.6	0.2
Nitration	Abs/cm	*ASTM D7624	>20	10.0	9.9	6.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2	22.4	21.8
FLUID DEGRAI	OITAC	method	limit/base	current	history1	history2
FLUID DEGRAI	Abs/.1mm	method *ASTM D7414	limit/base	current 16.1	history1 16.7	history2 16.5



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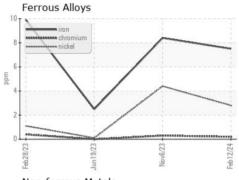


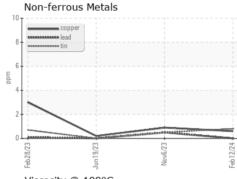


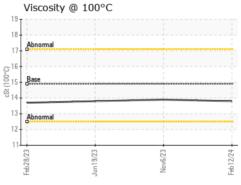
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

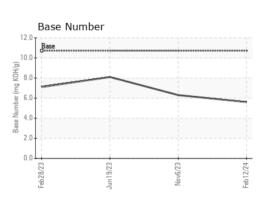
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	14.9	13.8	13.9	13.8	

GRAPHS













Certificate L2367

Laboratory Sample No.

: GFL0096242 Lab Number : 06096100 Unique Number: 10888953 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Feb 2024 **Tested**

Diagnosed

: 22 Feb 2024 : 22 Feb 2024 - Wes Davis

10164 M-32

Elmira, MI US 49730 Contact: ANDY GROBASKI andyg@americanwaste.org

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: GFL624 [WUSCAR] 06096100 (Generated: 02/22/2024 14:52:31) Rev: 1

Submitted By: KEITH CAMPBELL

GFL Environmental - 624 - Elmira Hauling

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