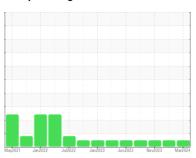


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **427037-587**

Component Discol Engin

Diesel Engine

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

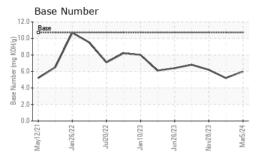
Fluid Condition

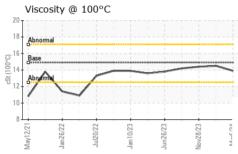
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

.)		May2021	Jul2022 Jul2022	Jan 2023 Jun 2023 Nov 2023	Mar2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0104604	GFL0096321	GFL0096317	
Sample Date		Client Info		05 Mar 2024	19 Dec 2023	28 Nov 2023	
Machine Age	hrs	Client Info		15228	13176	13176	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		Not Changd	Changed	Not Changd	
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 METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	15	31	28	
Chromium	ppm	ASTM D5185m	>20	<1	1	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	0	
Titanium	ppm	ASTM D5185m		12	10	10	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	5	11	10	
Lead	ppm	ASTM D5185m	>40	0	<1	0	
Copper	ppm	ASTM D5185m	>330	<1	1	1	
Tin	ppm	ASTM D5185m	>15	0	0	0	
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		82	61	73	
Barium	ppm	ASTM D5185m		0	0	2	
Molybdenum	ppm	ASTM D5185m		52	65	68	
Manganese	ppm	ASTM D5185m		<1	<1	0	
Magnesium	ppm	ASTM D5185m		719	731	690	
Calcium	ppm	ASTM D5185m		1580	1755	1575	
Phosphorus	ppm	ASTM D5185m	760	731	685	709	
Zinc	ppm	ASTM D5185m	830	847	905	861	
Sulfur	ppm	ASTM D5185m	2//0	3304	2737	2966	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	4	7	6	
Sodium	ppm	ASTM D5185m		10	10	8	
Potassium	ppm	ASTM D5185m	>20	7	18	20	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.4	0.6	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	11.0	12.6	12.1	
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.1	27.0	26.1	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.9	24.2	22.5	
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	6.0	5.2	6.2	



OIL ANALYSIS REPORT

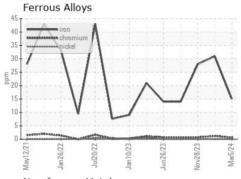


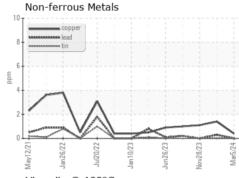


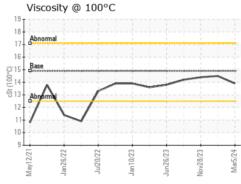
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

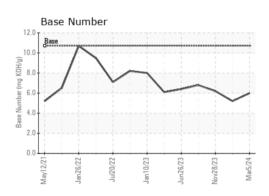
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	14.9	13.9	14.5	14.4

GRAPHS













Certificate L2367

Laboratory Sample No.

Test Package : FLEET

: GFL0104604 Lab Number : 06116383 Unique Number : 10925216

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Mar 2024 **Tested**

: 13 Mar 2024 Diagnosed

: 13 Mar 2024 - Wes Davis

GFL Environmental - 624 - Elmira Hauling 10164 M-32

Elmira, MI US 49730 Contact: ANDY GROBASKI

andyg@americanwaste.org T: (989)370-2941

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)