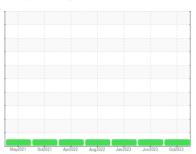


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **529019-1251**

Component

Diesel Engine

CHEVRON DELO 400 XLE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

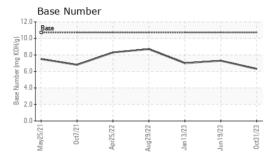
Fluid Condition

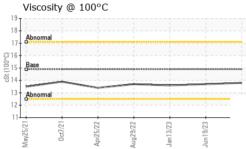
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Mm/2021							
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0096125	GFL0073485	GFL0064737	
Sample Date		Client Info		31 Oct 2023	19 Jun 2023	13 Jan 2023	
Machine Age	hrs	Client Info		8620	8020	7419	
Oil Age	hrs	Client Info		600	601	674	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<1.0	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METALS method limit/base current history1 history2						history2	
Iron	ppm	ASTM D5185m	>100	32	12	15	
Chromium	ppm	ASTM D5185m	>20	1	<1	1	
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1	
Titanium	ppm	ASTM D5185m		15	14	4	
Silver	ppm	ASTM D5185m	>3	<1	0	0	
Aluminum	ppm	ASTM D5185m	>20	3	3	5	
Lead	ppm	ASTM D5185m	>40	0	0	0	
Copper	ppm	ASTM D5185m		5	4	5	
Tin	ppm	ASTM D5185m	>15	<1	<1	<1	
Vanadium	ppm	ASTM D5185m	710	0	0	<1	
Cadmium	ppm	ASTM D5185m		<1	0	0	
	рріп		lineit/lenen				
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		46	74	126	
Barium	ppm	ASTM D5185m		4	0	0	
Molybdenum	ppm	ASTM D5185m		52	49	92	
Manganese	ppm	ASTM D5185m		<1	<1	<1	
Magnesium	ppm	ASTM D5185m		690	649	516	
Calcium	ppm	ASTM D5185m		1563	1804	1640	
Phosphorus	ppm	ASTM D5185m	760	666	715	729	
Zinc	ppm	ASTM D5185m	830	819	865	907	
Sulfur	ppm	ASTM D5185m	2770	3065	3530	2817	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	7	5	6	
Sodium	ppm	ASTM D5185m		0	0	2	
Potassium	ppm	ASTM D5185m	>20	15	6	6	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	10.2	10.3	10.1	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.5	21.5	22.0	
FLUID DEGRA	OATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.7	17.4	18.8	
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	6.3	7.3	7.0	
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OIL ANALYSIS REPORT

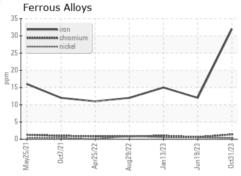


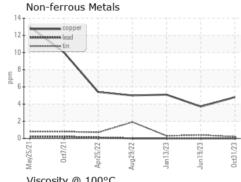


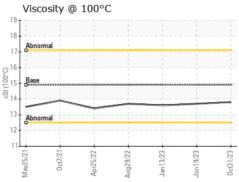
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

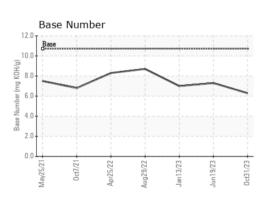
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	14.9	13.8	13.7	13.6	

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number Test Package : FLEET

: GFL0096125 : 05997671

: 10726031

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Nov 2023

Diagnosed : 06 Nov 2023 Diagnostician : Wes Davis

GFL Environmental - 629 - Northern A1

3947 US 131 N Kalkaska, MI US 49646-8428

Contact: MITCH HERSHBERGER

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)

T: (231)624-0848 F: