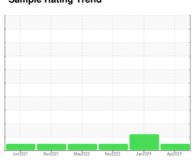


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **223009-814**

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

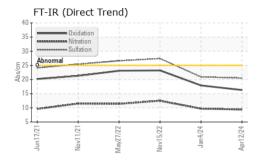
Fluid Condition

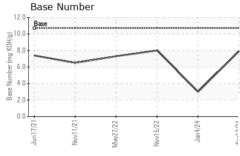
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

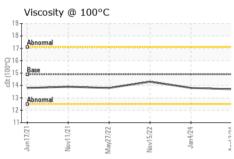
)		Jun2021	Nov2021 May2022	? Nov2022 Jan2024	Apr2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0110959	GFL0096097	GFL0037101	
Sample Date		Client Info		12 Apr 2024	04 Jan 2024	15 Nov 2022	
Machine Age	hrs	Client Info		17457	16827	14892	
Oil Age	hrs	Client Info		630	1935	632	
Oil Changed	0	Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	ABNORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<1.0	<1.0	<1.0	
Water		WC Method		NEG	NEG	NEG	
		WC Method	>0.2	NEG	NEG	NEG	
Glycol							
WEAR METAL	.S	method	limit/base		history1	history2	
Iron	ppm	ASTM D5185m	>100	4	5	15	
Chromium	ppm	ASTM D5185m		<1	<1	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	0	
Titanium	ppm	ASTM D5185m		15	12	2	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	<1	2	5	
Lead	ppm	ASTM D5185m	>40	1	2	23	
Copper	ppm	ASTM D5185m	>330	0	<1	2	
Tin	ppm	ASTM D5185m	>15	<1	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	<1	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		127	139	130	
Barium	ppm	ASTM D5185m		0	0	2	
Molybdenum	ppm	ASTM D5185m		49	54	119	
Manganese	ppm	ASTM D5185m		0	<1	<1	
Magnesium	ppm	ASTM D5185m		745	687	585	
Calcium	ppm	ASTM D5185m		1543	1538	1653	
Phosphorus	ppm	ASTM D5185m	760	754	814	729	
Zinc	ppm	ASTM D5185m	830	844	899	919	
Sulfur	ppm	ASTM D5185m	2770	3341	3080	2965	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	6	7	7	
Sodium	ppm	ASTM D5185m		2	3	3	
Potassium	ppm	ASTM D5185m	>20	3	4	7	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.2	1.5	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	9.4	9.7	12.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	20.9	27.4	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	17.9	23.2	
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	7.9	△ 3.0	8	
(2.1)	3						



OIL ANALYSIS REPORT



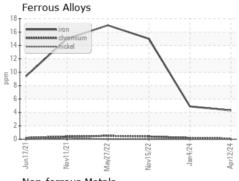


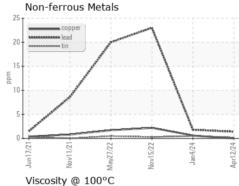


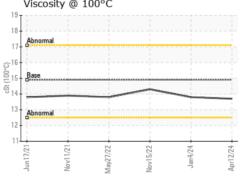
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

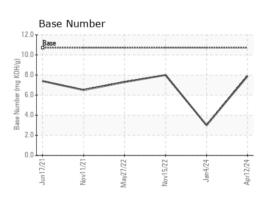
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	14.9	13.7	13.8	14.3

GRAPHS













Certificate 12367

Laboratory Sample No.

Test Package : FLEET

: GFL0110959 Lab Number : 06151483 Unique Number : 10981561

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Apr 2024

Tested : 18 Apr 2024

Diagnosed : 18 Apr 2024 - 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.

T: (231)624-0848