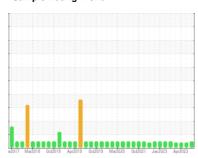


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 10712 Component

Diesel Engine

CHEVRON DELO 400 SDE SAE 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

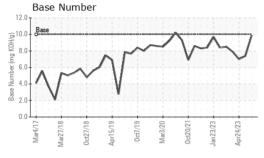
Fluid Condition

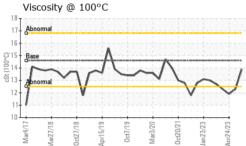
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

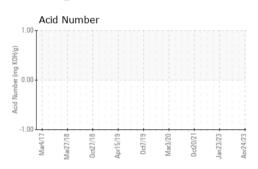
#2017 M#2018 Oct2018 Ap2019 Oct2019 M#2020 Oct2021 J##2023 App2023							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL05898313	GFL0083116	GFL0077464	
Sample Date		Client Info		10 Jul 2023	11 May 2023	24 Apr 2023	
Machine Age	hrs	Client Info		0	0	0	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed	0	Client Info		Not Changd	Changed	Not Changd	
Sample Status				NORMAL	ATTENTION	ATTENTION	
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 METAL	.S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>110	4	10	5	
Chromium	ppm	ASTM D5185m	>4	<1	<1	0	
Nickel	ppm	ASTM D5185m	>2	<1	0	0	
Titanium	ppm	ASTM D5185m		<1	<1	<1	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>25	2	2	6	
Lead	ppm	ASTM D5185m	>45	0	0	0	
Copper	ppm	ASTM D5185m	>85	<1	6	<1	
Tin	ppm	ASTM D5185m	>4	0	0	0	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		2	5	6	
Barium	ppm	ASTM D5185m		2	0	0	
Molybdenum	ppm	ASTM D5185m		61	58	58	
Manganese	ppm	ASTM D5185m		0	<1	<1	
Magnesium	ppm	ASTM D5185m		916	888	929	
Calcium	ppm	ASTM D5185m		1101	1099	1063	
Phosphorus	ppm	ASTM D5185m	760	1028	953	991	
Zinc	ppm	ASTM D5185m	800	1239	1171	1227	
Sulfur	ppm	ASTM D5185m	3000	3466	3232	3328	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>30	3	4	4	
Sodium	ppm	ASTM D5185m		<1	3	1	
Potassium	ppm	ASTM D5185m	>20	2	5	5	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	5.4	7.3	6.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	18.8	16.4	
FLUID DEGRA	OITAC	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.6	14.8	13.3	
Base Number (BN)	mg KOH/g			9.9	7.4	7.0	
, ,							



OIL ANALYSIS REPORT



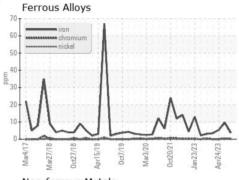


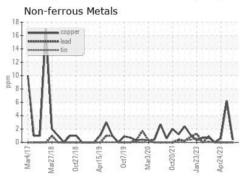


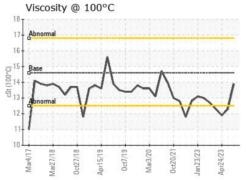
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

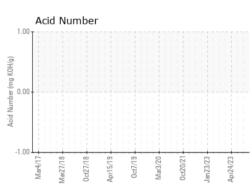
FLUID PROPE	ERITES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	14.6	13.9	12.3	<u> </u>

GRAPHS













Certificate L2367

Laboratory Test Package : FLEET

Sample No. Lab Number **Unique Number**

: GFL05898313 : 05898313

: 10559669

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Jul 2023

Diagnosed : 17 Jul 2023 Diagnostician : Jonathan Hester GFL Environmental - 072 - Americus - Transwaste

361 McMath Mill Road Americus, GA US 31719

T: (229)924-3669

Contact: RICHARD HEINZERLING richard.heinzerling@gflenv.com

* - 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)