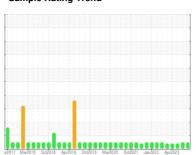


OIL ANALYSIS REPORT

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

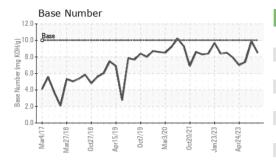
Fluid Condition

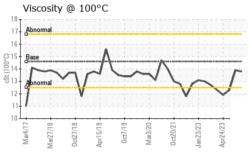
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

ual)		ar2017 Mar201	8 Oct2018 Apr2019 Oct2	019 Mar2020 Oct2021 Jan2023	Apr2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0083108	GFL05898313	GFL0083116
Sample Date		Client Info		17 Jul 2023	10 Jul 2023	11 May 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	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	4	10
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m	/L	0	<1	<1
Silver		ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	2
Lead		ASTM D5185m	>45	0	0	0
	ppm	ASTM D5185m	>85	0	<1	6
Copper Tin	ppm	ASTM D5185m	>05	0	0	0
Vanadium	ppm	ASTM D5185m	>4	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ppm					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		12	2	5
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m		59	61	58
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		924	916	888
Calcium	ppm	ASTM D5185m		1275	1101	1099
Phosphorus	ppm	ASTM D5185m	760	1016	1028	953
Zinc	ppm	ASTM D5185m	800	1231	1239	1171
Sulfur	ppm	ASTM D5185m	3000	3681	3466	3232
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	3	3	4
Sodium	ppm	ASTM D5185m		2	<1	3
Potassium	ppm	ASTM D5185m	>20	<1	2	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.2	5.4	7.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.9	18.1	18.8
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	13.6	14.8
Base Number (BN)	mg KOH/g	ASTM D2896	10	8.5	9.9	7.4
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OIL ANALYSIS REPORT

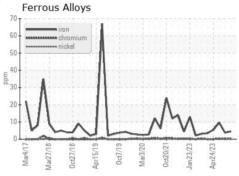


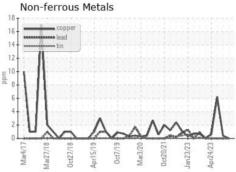


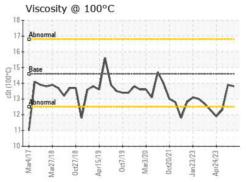
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

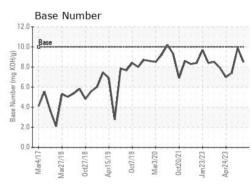
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	14.6	13.8	13.9	<u></u> 12.3

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10565493 Test Package : FLEET

: GFL0083108 : 05904137

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Jul 2023 Diagnosed : 24 Jul 2023

Diagnostician : Angela Borella

GFL Environmental - 072 - Americus - Transwaste

361 McMath Mill Road Americus, GA US 31719

T: (229)924-3669

Contact: RICHARD HEINZERLING richard.heinzerling@gflenv.com

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)