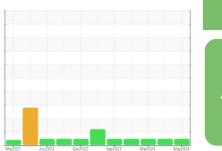


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **410013-1382**

Component

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Moor

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

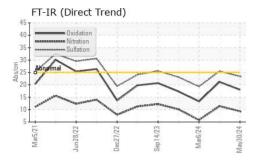
Fluid Condition

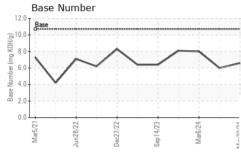
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

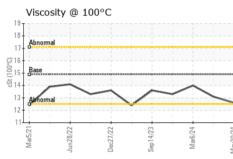
)		Mar2021	Jun2022 Dec2022	Sep2023 Mar2024	May2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0104699	GFL0104594	GFL0104596	
Sample Date		Client Info		30 May 2024	08 Mar 2024	06 Mar 2024	
Machine Age	hrs	Client Info		8518	7304	7911	
Oil Age	hrs	Client Info		0	609	7911	
Oil Changed	1113	Client Info		Not Changd	N/A	N/A	
Sample Status		Oliciit iiilo		NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	mathad	limit/booo	-			
	ION	method	limit/base		history1	history2	
Fuel		WC Method	>2.0	<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	23	25	0	
Chromium	ppm	ASTM D5185m	>20	<1	1	0	
Nickel	ppm	ASTM D5185m	>4	0	0	0	
Titanium	ppm	ASTM D5185m		6	7	6	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	3	7	2	
Lead	ppm	ASTM D5185m	>40	3	6	0	
Copper	ppm	ASTM D5185m	>330	<1	0	0	
Tin	ppm	ASTM D5185m	>15	0	<1	0	
Vanadium	ppm	ASTM D5185m		<1	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		128	98	309	
Barium	ppm	ASTM D5185m		0	0	0	
Molybdenum	ppm	ASTM D5185m		63	84	62	
Manganese	ppm	ASTM D5185m		<1	<1	0	
Magnesium	ppm	ASTM D5185m		524	717	537	
Calcium	ppm	ASTM D5185m		1529	1597	1438	
Phosphorus	ppm	ASTM D5185m	760	836	772	830	
Zinc	ppm	ASTM D5185m	830	964	907	961	
Sulfur	ppm	ASTM D5185m	2770	3258	3145	3416	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	0	6	4	
Sodium	ppm	ASTM D5185m		5	5	4	
Potassium	ppm	ASTM D5185m	>20	4	8	2	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.6	0.7	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	9.3	11.4	5.8	
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.4	25.5	19.3	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.0	21.2	13.3	
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	6.6	6.0	8.0	
Dago (Maribol (DIV)	ing Northy	AOTHI DE000	70.7	0.0	0.0	0.0	



OIL ANALYSIS REPORT



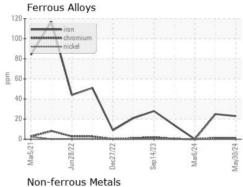


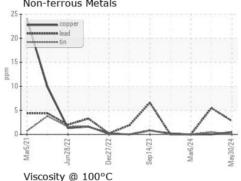


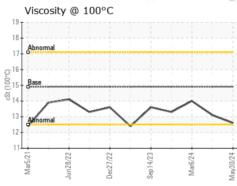
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

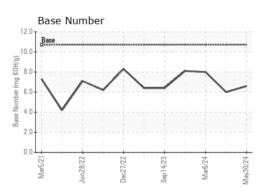
FLUID PROP	ERIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	14.9	12.6	13.1	14.0

GRAPHS













Certificate 12367

Laboratory Sample No.

Test Package : FLEET

: GFL0104699 Lab Number : 06198865 Unique Number : 11060988

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received **Tested** Diagnosed

: 04 Jun 2024 : 05 Jun 2024 : 05 Jun 2024 - Wes Davis

10164 M-32 Elmira, MI US 49730

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

GFL Environmental - 624 - Elmira Hauling

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)