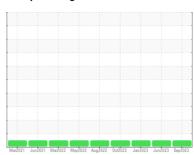


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **527023-735**

Component

Diesel Engine

CHEVRON DELO 400 XLE 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

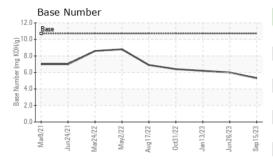
Fluid Condition

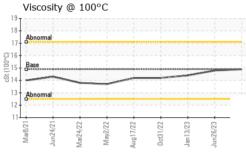
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Mic2021 Jun2021 Mic2022 May2022 Aug2022 Oct022 Jan2023 Jun2023 Sep2023							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0084498	GFL0073478	GFL0064736	
Sample Date		Client Info		15 Sep 2023	26 Jun 2023	13 Jan 2023	
Machine Age	hrs	Client Info		16914	16246	15001	
Oil Age	hrs	Client Info		668	1245	587	
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							
Iron	ppm	ASTM D5185m	>100	41	29	26	
Chromium	ppm	ASTM D5185m	>20	1	1	<1	
Nickel	ppm	ASTM D5185m	>4	0	<1	<1	
Titanium	ppm	ASTM D5185m		16	16	12	
Silver	ppm	ASTM D5185m	>3	0	<1	0	
Aluminum	ppm	ASTM D5185m	>20	7	4	2	
Lead	ppm	ASTM D5185m	>40	29	12	11	
Copper	ppm	ASTM D5185m		1	1	<1	
Tin		ASTM D5185m	>15	<1	<1	0	
Vanadium	ppm	ASTM D5185m	>10	<1	<1	<1	
Cadmium	ppm	ASTM D5185m		0	0	0	
	рріп			-			
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		40	41	52	
Barium	ppm	ASTM D5185m		0	0	0	
Molybdenum	ppm	ASTM D5185m		61	37	60	
Manganese	ppm	ASTM D5185m		<1	<1	<1	
Magnesium	ppm	ASTM D5185m		773	892	678	
Calcium	ppm	ASTM D5185m		1758	1825	1698	
Phosphorus	ppm	ASTM D5185m	760	826	812	745	
Zinc	ppm	ASTM D5185m	830	989	988	924	
Sulfur	ppm	ASTM D5185m	2770	3568	4071	3141	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	12	20	6	
Sodium	ppm	ASTM D5185m		5	3	5	
Potassium	ppm	ASTM D5185m	>20	11	5	4	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.5	0.4	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	12.6	12.4	11.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.7	26.8	25.2	
FLUID DEGRA	OATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.8	23.0	20.5	
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	5.3	6.0	6.2	
. ,							



OIL ANALYSIS REPORT

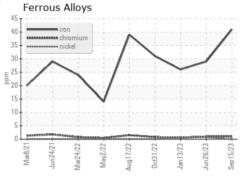


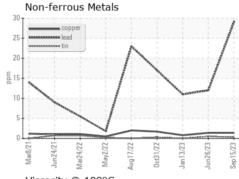


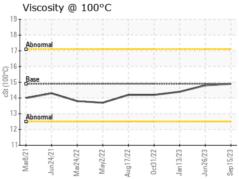
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

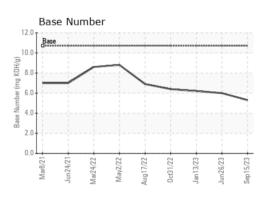
FLUID PROPE	RHES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	14.9	14.9	14.8	14.4

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10657440 Test Package : FLEET

: GFL0084498 : 05956227

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Sep 2023 Diagnosed : 21 Sep 2023

Diagnostician : Doug Bogart

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: