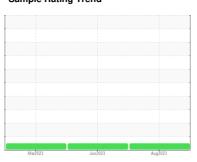


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



AUTOCAR 427123

Component

Diesel Engine

CHEVRON DELO 400 MULTIGRADE 15W40 (40 QTS)

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.

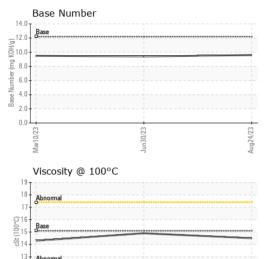
Fluid Condition

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

0 (40 QTS)		Ma	Mw2023 Jun2023 Aug2023					
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		GFL0085655	GFL0079531	GFL0076853		
Sample Date		Client Info		24 Aug 2023	30 Jun 2023	10 Mar 2023		
Machine Age	hrs	Client Info		8309	3083	2521		
Oil Age	hrs	Client Info		8309	3083	2521		
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	19	25	36		
Chromium	ppm	ASTM D5185m	>20	1	1	3		
Nickel	ppm	ASTM D5185m	>4	0	0	<1		
Titanium	ppm	ASTM D5185m		<1	<1	<1		
Silver	ppm	ASTM D5185m	>3	0	0	0		
Aluminum	ppm	ASTM D5185m	>20	5	6	4		
Lead	ppm	ASTM D5185m	>40	3	4	4		
Copper	ppm		>330	2	2	1		
Tin				0	0	<1		
Vanadium	ppm	ASTM D5185m	>15		0	<1		
	ppm	ASTM D5185m		<1 0	0	0		
Cadmium	ppm	ASTM D5185m		-				
ADDITIVES		method	limit/base		history1	history2		
Boron	ppm	ASTM D5185m		262	255	252		
Barium	ppm	ASTM D5185m		0	0	0		
Molybdenum	ppm	ASTM D5185m		123	127	120		
Manganese	ppm	ASTM D5185m		<1	<1	<1		
Magnesium	ppm	ASTM D5185m		683	596	628		
Calcium	ppm	ASTM D5185m		1640	1490	1488		
Phosphorus	ppm	ASTM D5185m	1360	689	686	683		
Zinc	ppm	ASTM D5185m	1480	857	826	853		
Sulfur	ppm	ASTM D5185m		2846	2669	2318		
CONTAMINAN	ITS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	7	7	12		
Sodium	ppm	ASTM D5185m		6	<1	8		
Potassium	ppm	ASTM D5185m	>20	2	2	1		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>3	2.3	2.5	2.6		
Nitration	Abs/cm	*ASTM D7624	>20	11.2	11.3	11.4		
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.9	28.9	28.6		
FLUID DEGRADATION method limit/base current history1 history2								
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.3	21.7	20.1		
Base Number (BN)	mg KOH/g	ASTM D2896		9.6	9.4	9.5		
Dasc Hamber (BIN)	mg Norry	, 10 TWI D2000		0.0	0.1	0.0		



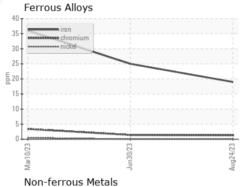
OIL ANALYSIS REPORT

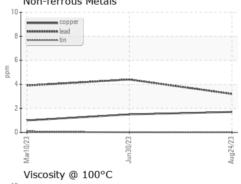


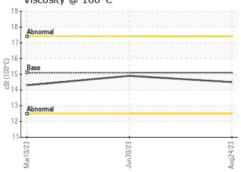
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

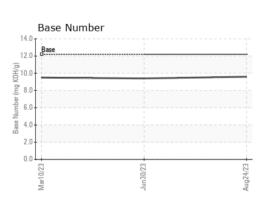
FLUID PROP	EHILO	method			riistory i	History
Visc @ 100°C	cSt	ASTM D445	15.1	14.5	14.9	14.3

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10634703

: GFL0085655 : 05944091 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Sep 2023

Diagnosed : 07 Sep 2023 Diagnostician : Wes Davis

GFL Environmental - 409 - Wood Island LF

E10081 State Hwy M28 Wetmore, MI US 49895

Contact: Service Manager

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:

F: