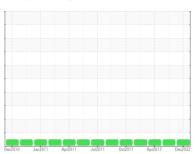


# **OIL ANALYSIS REPORT**

### Sample Rating Trend



NORMAL



11052 - OLD 708

Component

**Diesel Engine** 

**CHEVRON URSA SUPER PLUS EC 15W40 (10 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.

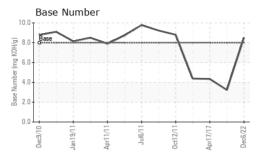
## **Fluid Condition**

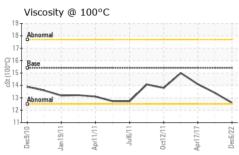
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

(10 QTS)		Dec2010	Jan2011 Apr2011	Jul2011 Oct2011 Apr2017	Dec2022	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0062667	GFLI-H39311	GFLI-B59160
Sample Date		Client Info		06 Dec 2022	09 Feb 2018	17 Apr 2017
Machine Age	mls	Client Info		0	381170	2445
Oil Age	mls	Client Info		0	450	450
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	0.5	0.5
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	35	18	19
Chromium	ppm	ASTM D5185m	>20	1	2	2
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	10	2	1
Lead	ppm	ASTM D5185m	>40	<1	4	7
Copper	ppm	ASTM D5185m	>330	4	1	2
Tin	ppm	ASTM D5185m	>15	<1	0	0
Antimony	ppm	ASTM D5185m			0	1
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		25	252	286
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		66	111	99
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		780	458	387
Calcium	ppm	ASTM D5185m		1153	1671	1568
Phosphorus	ppm	ASTM D5185m	1200	954	1007	1029
Zinc	ppm	ASTM D5185m	1300	1087	1175	1245
Sulfur	ppm	ASTM D5185m		3374		
Lithium	ppm	ASTM D5185m			0	0
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	5	5
Sodium	ppm	ASTM D5185m		3	4	25
Potassium	ppm	ASTM D5185m	>20	17	0	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	1	0.5
Nitration	Abs/cm	*ASTM D7624	>20	8.8		
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6		



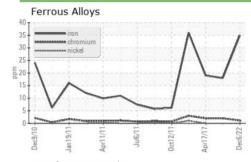
# **OIL ANALYSIS REPORT**

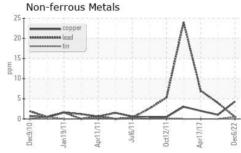


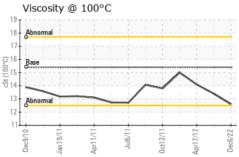


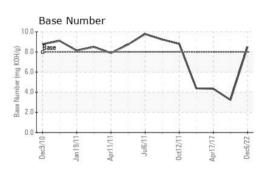
FLUID DEGRAD	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	17	15
Base Number (BN)	mg KOH/g	ASTM D2896	8.0	8.5	3.23	4.34
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG		
Free Water	scalar	*Visual		NEG		
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.6	13.4	14.1

## **GRAPHS**













Certificate L2367

Laboratory Sample No.

Test Package : FLEET

: GFL0062667 Lab Number : 05710866 Unique Number : 10245441

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 07 Dec 2022

**Tested** : 08 Dec 2022 Diagnosed : 09 Dec 2022 - Don Baldridge

GFL Environmental - 015 - Columbia

7800 Farrow Road Columbia, SC US 29203-3219

F: (803)935-0244

Contact: NOEL MATTHEWS

nmatthewsjr@gflenv.com T: (803)935-0249

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)