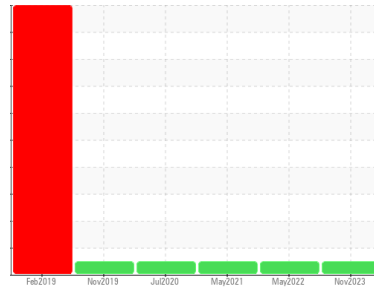




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
11343 CHEVROLET 3500 HD
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (16 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.

SAMPLE INFORMATION

method	limit/base	current	history1	history2	
Sample Number	Client Info	GFL0094667	GFL0052448	PCA0039129	
Sample Date	Client Info	01 Nov 2023	10 May 2022	05 May 2021	
Machine Age	mls	Client Info	99577	73493	0
Oil Age	mls	Client Info	26084	5538	10106
Oil Changed	Client Info	Changed	Changed	N/A	
Sample Status		NORMAL	NORMAL	NORMAL	

CONTAMINATION

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	61	27	29
Chromium	ppm ASTM D5185m >20	1	<1	<1
Nickel	ppm ASTM D5185m >4	0	0	0
Titanium	ppm ASTM D5185m	0	0	0
Silver	ppm ASTM D5185m >3	0	<1	<1
Aluminum	ppm ASTM D5185m >20	4	4	3
Lead	ppm ASTM D5185m >40	3	1	1
Copper	ppm ASTM D5185m >330	2	2	1
Tin	ppm ASTM D5185m >15	<1	1	1
Antimony	ppm ASTM D5185m	---	---	<1
Vanadium	ppm ASTM D5185m	0	<1	0
Cadmium	ppm ASTM D5185m	<1	<1	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 0	2	15	8
Barium	ppm ASTM D5185m 0	0	0	0
Molybdenum	ppm ASTM D5185m 60	61	60	57
Manganese	ppm ASTM D5185m 0	0	<1	<1
Magnesium	ppm ASTM D5185m 1010	457	919	810
Calcium	ppm ASTM D5185m 1070	1491	1168	1060
Phosphorus	ppm ASTM D5185m 1150	954	1054	925
Zinc	ppm ASTM D5185m 1270	1162	1268	1152
Sulfur	ppm ASTM D5185m 2060	3115	2666	2618

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	14	7	8
Sodium	ppm ASTM D5185m	0	<1	<1
Potassium	ppm ASTM D5185m >20	5	3	2

INFRA-RED

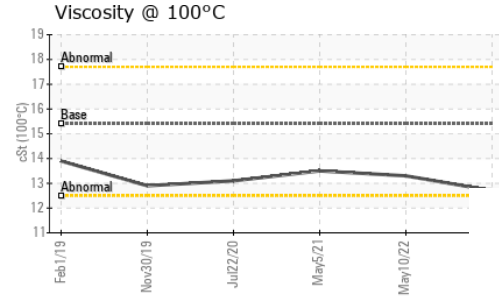
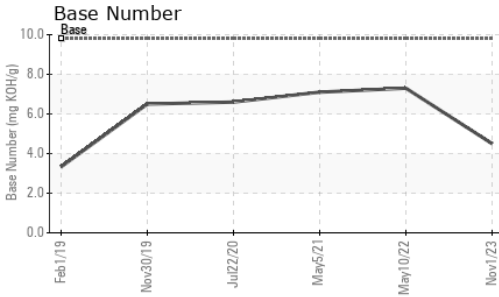
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	1.1	0.7	0.7
Nitration	Abs/cm *ASTM D7624 >20	13.2	11.2	11.1
Sulfation	Abs/.1mm *ASTM D7415 >30	26.1	23.3	23.6

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	24.7	22.3	22.7
Base Number (BN)	mg KOH/g ASTM D2896 9.8	4.5	7.3	7.1



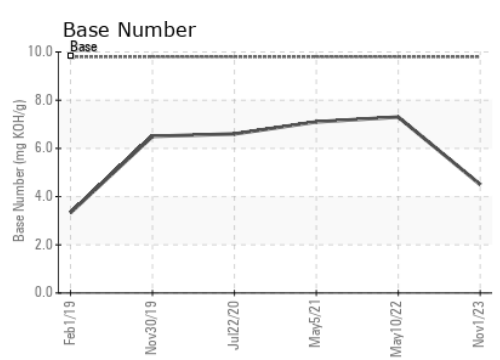
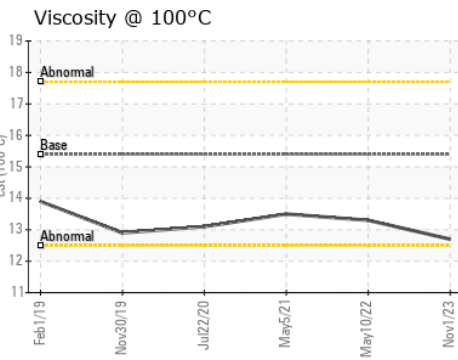
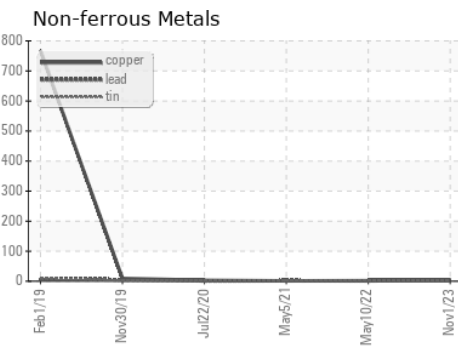
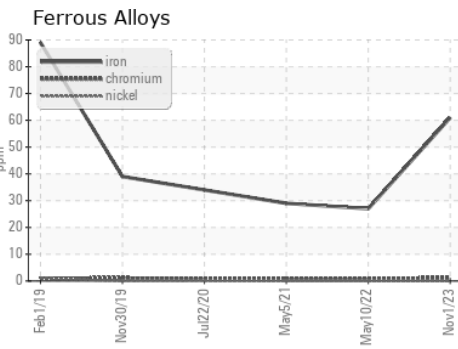
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.4	12.7	13.3	13.5

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0094667 **Received** : 02 Nov 2023
Lab Number : **05996459** **Diagnosed** : 03 Nov 2023
Unique Number : 10724819 **Diagnostician** : Sean Felton
Test Package : FLEET

GFL Environmental - 001 - Raleigh(CNG)
 3741 Conquest Drive
 Garner, NC
 US 27529
 Contact: Ronald Gregory
 rgregory@gflenv.com
 T:
 F: (919)662-1730

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)