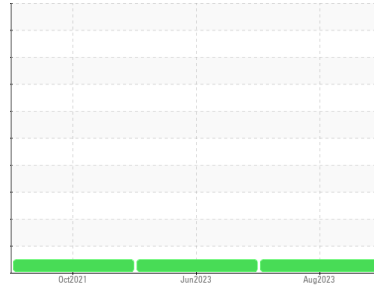




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
921010-560 AUTOCAR ACX64 FRONT LOAD

Component
Diesel Engine

Fluid
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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0068308	GFL0068310	GFL0032349
Sample Date	Client Info		14 Aug 2023	08 Jun 2023	07 Oct 2021
Machine Age	hrs	Client Info	0	0	21627
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		Changed	N/A	Changed
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	43	12	24
Chromium	ppm	ASTM D5185m >20	6	<1	2
Nickel	ppm	ASTM D5185m >4	<1	0	<1
Titanium	ppm	ASTM D5185m	0	0	1
Silver	ppm	ASTM D5185m >3	0	0	<1
Aluminum	ppm	ASTM D5185m >20	4	<1	6
Lead	ppm	ASTM D5185m >40	<1	<1	3
Copper	ppm	ASTM D5185m >330	<1	<1	1
Tin	ppm	ASTM D5185m >15	0	0	0
Antimony	ppm	ASTM D5185m	---	---	1
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	4	6	11
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	58	61	49
Manganese	ppm	ASTM D5185m	<1	0	<1
Magnesium	ppm	ASTM D5185m	871	918	795
Calcium	ppm	ASTM D5185m	1060	1100	1119
Phosphorus	ppm	ASTM D5185m 760	989	1016	646
Zinc	ppm	ASTM D5185m 830	1136	1219	991
Sulfur	ppm	ASTM D5185m 2770	2857	3353	3812

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	6	5	6
Sodium	ppm	ASTM D5185m	<1	<1	12
Potassium	ppm	ASTM D5185m >20	2	<1	0

INFRA-RED

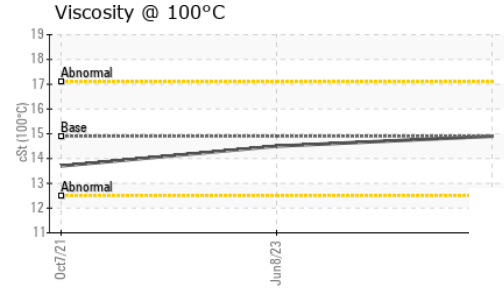
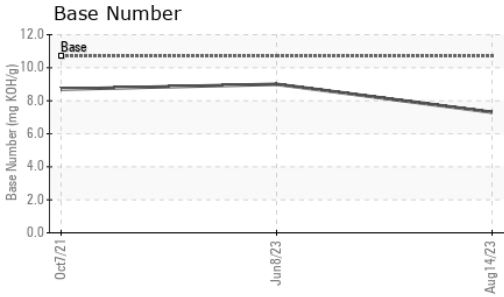
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	2.8	1.1	0.8
Nitration	Abs/cm	*ASTM D7624 >20	8.4	6.4	9
Sulfation	Abs/.1mm	*ASTM D7415 >30	22.3	20.1	20.4

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	13.6	13.7	15.5
Base Number (BN)	mg KOH/g	ASTM D2896 10.7	7.3	9.0	8.7



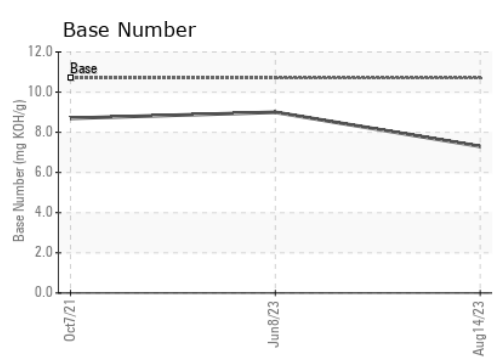
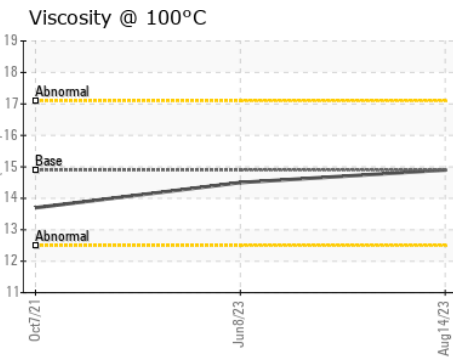
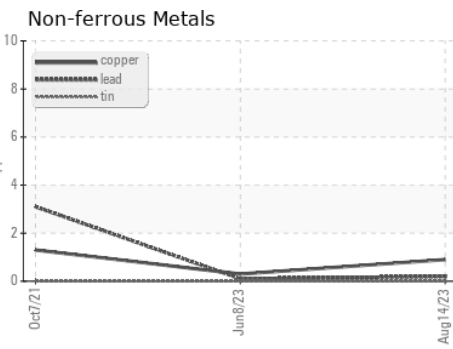
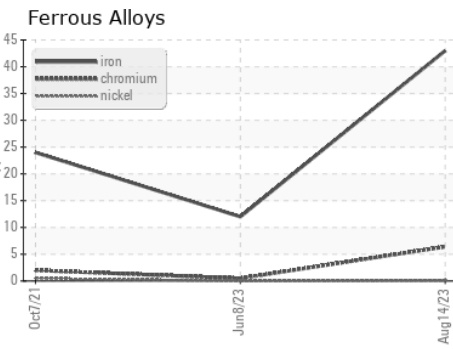
OIL ANALYSIS REPORT



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	14.9	14.5	13.7

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0068308 **Received** : 15 Aug 2023
Lab Number : 05924683 **Diagnosed** : 16 Aug 2023
Unique Number : 10604630 **Diagnostician** : Sean Felton
Test Package : FLEET

GFL Environmental - 642- Grand Rapids Hauling
 5826 Alden Nash Ave SE
 Lowell, MI
 US 49331
 Contact: Chad Crosby
 ccrosby@gflenv.com
 T: (616)299-8425
 F:

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)