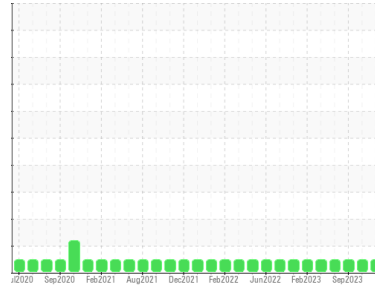




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
910013 AUTOCAR ACX
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 40 (48 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

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	GFL0103189	GFL0094649	GFL0089295
Sample Date	Client Info	11 Mar 2024	08 Dec 2023	12 Sep 2023
Machine Age	hrs	10269	9535	8920
Oil Age	hrs	734	615	540
Oil Changed	Client Info	Not Chngd	Changed	Changed
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >3.0	<1.0	<1.0	<1.0
Water	WC Method >0.2	NEG	NEG	NEG
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >165	12	7	8
Chromium	ppm ASTM D5185m >5	<1	<1	<1
Nickel	ppm ASTM D5185m >4	0	0	0
Titanium	ppm ASTM D5185m >2	0	0	0
Silver	ppm ASTM D5185m >2	0	0	0
Aluminum	ppm ASTM D5185m >20	1	<1	3
Lead	ppm ASTM D5185m >150	0	0	<1
Copper	ppm ASTM D5185m >90	<1	<1	<1
Tin	ppm ASTM D5185m >5	0	0	<1
Vanadium	ppm ASTM D5185m	0	0	<1
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 250	2	<1	4
Barium	ppm ASTM D5185m 10	0	0	0
Molybdenum	ppm ASTM D5185m 100	54	57	60
Manganese	ppm ASTM D5185m	0	0	<1
Magnesium	ppm ASTM D5185m 450	901	928	978
Calcium	ppm ASTM D5185m 3000	1022	1030	1206
Phosphorus	ppm ASTM D5185m 1150	974	967	1021
Zinc	ppm ASTM D5185m 1350	1144	1198	1275
Sulfur	ppm ASTM D5185m 4250	3243	3091	3702

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >35	2	2	4
Sodium	ppm ASTM D5185m >216	3	3	4
Potassium	ppm ASTM D5185m >20	<1	2	2

INFRA-RED

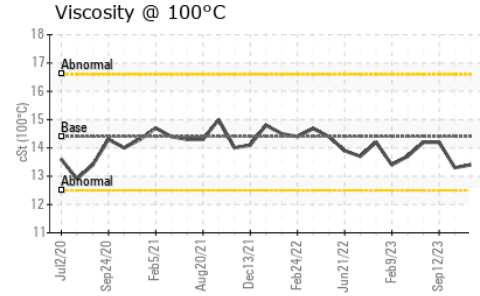
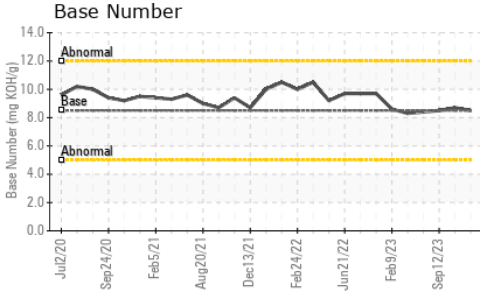
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >7.5	1	0.7	0.5
Nitration	Abs/cm *ASTM D7624 >20	8.2	6.9	7.0
Sulfation	Abs/.1mm *ASTM D7415 >30	19.9	18.8	18.0

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	14.8	13.7	13.0
Base Number (BN)	mg KOH/g ASTM D2896 8.5	8.5	8.7	8.5



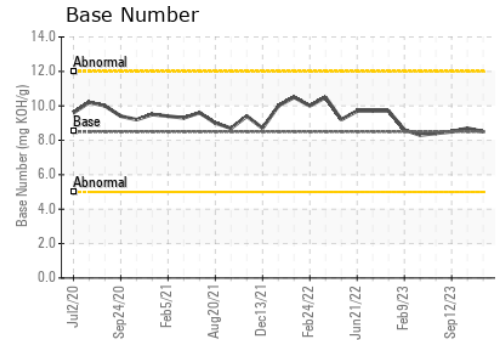
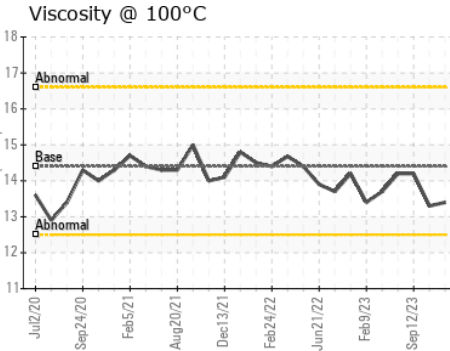
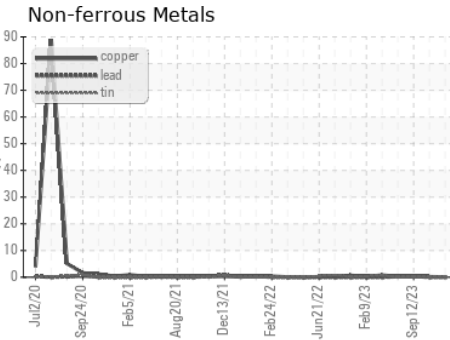
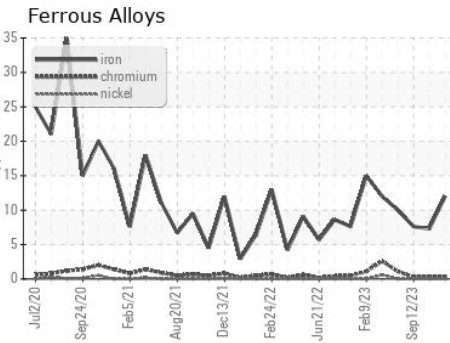
OIL ANALYSIS REPORT



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	14.4	13.4	13.3	14.2

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0103189
Lab Number : **06115669**
Unique Number : 10924502
Test Package : FLEET

Received : 12 Mar 2024
Tested : 13 Mar 2024
Diagnosed : 13 Mar 2024 - Wes Davis

GFL Environmental - 001 - Raleigh(CNG)
 3741 Conquest Drive
 Garner, NC
 US 27529

Contact: Craig Johnson
 craig.johnson@gflenv.com

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: (919)662-7100
 F: (919)662-7130