



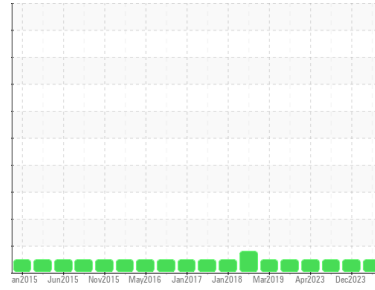
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
7913
Component
Natural Gas Engine
Fluid
DIESEL ENGINE OIL SAE 40 (24 GAL)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

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	GFL0115487	GFL0106963	GFL0089718
Sample Date	Client Info	22 Mar 2024	16 Dec 2023	08 Sep 2023
Machine Age	hrs	24649	24160	23529
Oil Age	hrs	0	0	835
Oil Changed	Client Info	Changed	Changed	Changed
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >50	20	3	4
Chromium	ppm ASTM D5185m >4	0	<1	<1
Nickel	ppm ASTM D5185m >2	<1	0	0
Titanium	ppm ASTM D5185m	0	0	0
Silver	ppm ASTM D5185m >3	0	0	0
Aluminum	ppm ASTM D5185m >9	2	1	<1
Lead	ppm ASTM D5185m >30	<1	<1	0
Copper	ppm ASTM D5185m >35	<1	<1	<1
Tin	ppm ASTM D5185m >4	<1	0	<1
Vanadium	ppm ASTM D5185m	0	<1	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 250	4	26	27
Barium	ppm ASTM D5185m 10	0	0	0
Molybdenum	ppm ASTM D5185m 100	58	48	52
Manganese	ppm ASTM D5185m	<1	0	<1
Magnesium	ppm ASTM D5185m 450	881	526	618
Calcium	ppm ASTM D5185m 3000	1060	1432	1685
Phosphorus	ppm ASTM D5185m 1150	1051	711	808
Zinc	ppm ASTM D5185m 1350	1244	874	1004
Sulfur	ppm ASTM D5185m 4250	3420	2309	3037

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >+100	3	3	3
Sodium	ppm ASTM D5185m >216	17	4	5
Potassium	ppm ASTM D5185m >20	10	<1	1

INFRA-RED

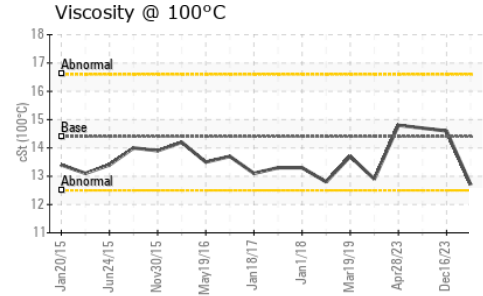
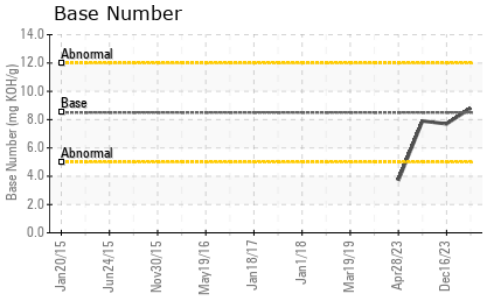
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	1.5	0.1	0.1
Nitration	Abs/cm *ASTM D7624 >20	10.3	8.4	8.4
Sulfation	Abs/.1mm *ASTM D7415 >30	20.5	18.7	17.9

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	16.5	16.2	15.2
Base Number (BN)	mg KOH/g ASTM D2896 8.5	8.8	7.7	7.9



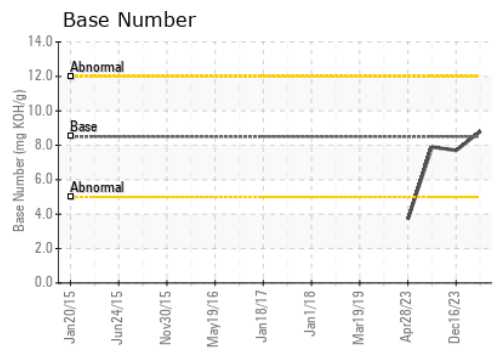
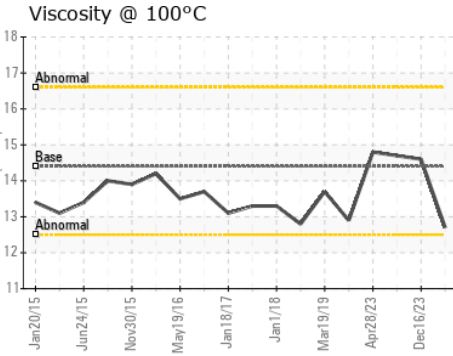
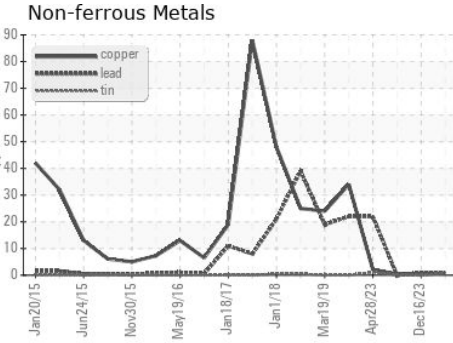
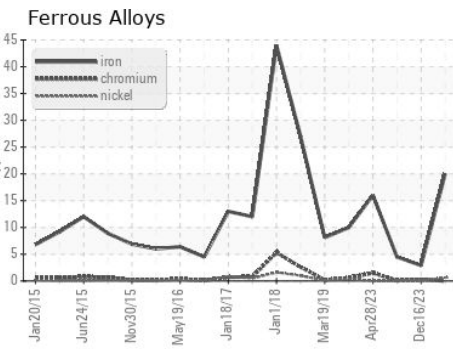
OIL ANALYSIS REPORT



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	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	14.4	12.7	14.6	14.7

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0115487 **Received** : 26 Mar 2024
Lab Number : **06129117** **Tested** : 27 Mar 2024
Unique Number : 10943268 **Diagnosed** : 27 Mar 2024 - Wes Davis
Test Package : FLEET

GFL Environmental - 882 - Gainesville
 5002 SW 41st Blvd
 Gainesville, FL
 US 32608
 Contact: ROBERT CLARK
 robert.clark@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)