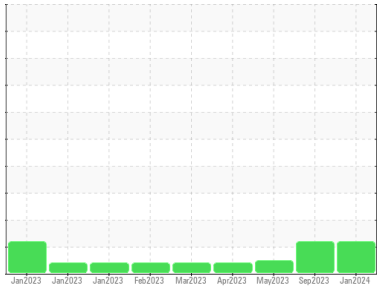
OIL ANALYSIS REPORT

Area
(62A0X0D) TALLASSEE
Machine Id
425027-345507
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (--- LTR)

Sample Rating Trend



FUEL

DIAGNOSIS

Recommendation
We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear
All component wear rates are normal.

Contamination
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Fluid Condition
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GFL0081857**	GFL0078464	GFL0072682
Sample Date		Client Info		**25 Jan 2024**	29 Sep 2023	11 May 2023
Machine Age	hrs	Client Info		**17584**	17245	17017
Oil Age	hrs	Client Info		**1015**	676	448
Oil Changed		Client Info		**N/A**	N/A	Not Changd
Sample Status				**ABNORMAL**	ABNORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
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	>120	**20**	11	7
Chromium	ppm	ASTM D5185m	>20	**<1**	<1	<1
Nickel	ppm	ASTM D5185m	>5	**<1**	1	<1
Titanium	ppm	ASTM D5185m	>2	**0**	0	0
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**15**	9	8
Lead	ppm	ASTM D5185m	>40	**<1**	<1	0
Copper	ppm	ASTM D5185m	>330	**4**	3	1
Tin	ppm	ASTM D5185m	>15	**<1**	1	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	0	**3**	9	14
Barium	ppm	ASTM D5185m	0	**0**	0	0
Molybdenum	ppm	ASTM D5185m	0	**62**	64	65
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m	0	**794**	826	855
Calcium	ppm	ASTM D5185m		**1048**	1076	1102
Phosphorus	ppm	ASTM D5185m		**837**	900	939
Zinc	ppm	ASTM D5185m		**1109**	1126	1225
Sulfur	ppm	ASTM D5185m		**2843**	2871	3879

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**10**	7	6
Sodium	ppm	ASTM D5185m		**4**	4	3
Potassium	ppm	ASTM D5185m	>20	**4**	3	3
Fuel	%	ASTM D3524	>3.0	▲ **3.5**	▲ 3.9	<1.0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	**1**	0.7	0.5
Nitration	Abs/cm	*ASTM D7624	>20	**11.3**	9.9	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	**21.9**	19.3	18.6

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**16.3**	14.8	14.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	**4.8**	6.1	7.2

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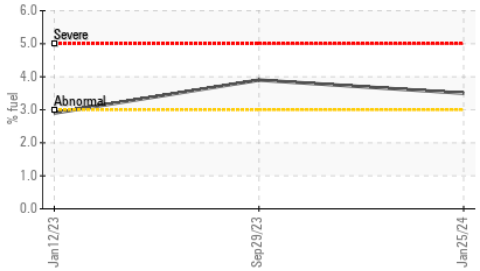
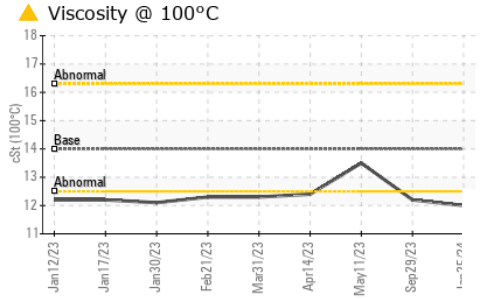
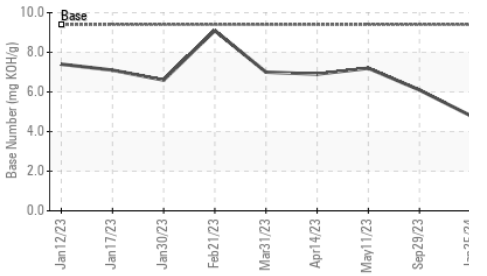
Fuel Dilution



Viscosity @ 100°C



Base Number

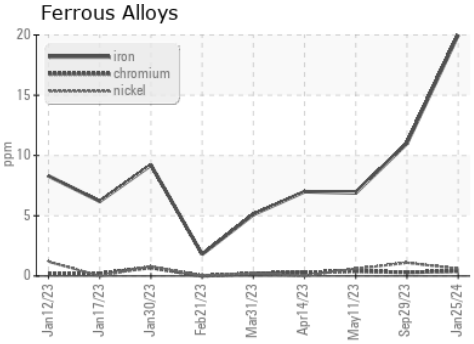


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

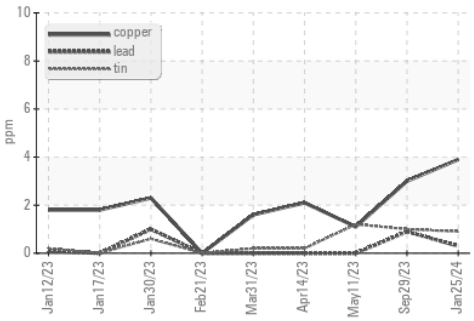
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14	▲ **12.0**	▲ 12.2	13.5

GRAPHS

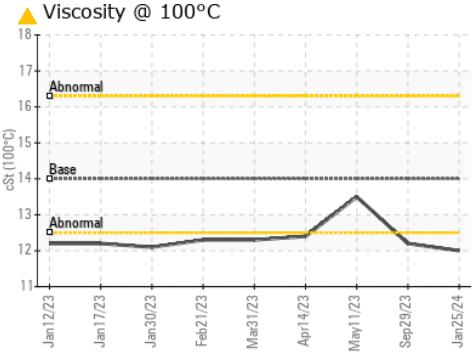
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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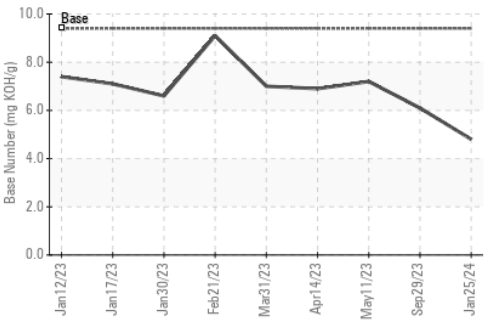

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0081857
Lab Number : 06078979
Unique Number : 10861070
Test Package : FLEET (Additional Tests: PercentFuel)

Received : 02 Feb 2024
Tested : 06 Feb 2024
Diagnosed : 06 Feb 2024 - Wes Davis

GFL Environmental - 172 - Montgomery-Alexander City-Tallahassee
Multiple Sites
Montgomery, AL
US 36108
Contact: RICHARD HATFIELD
rhatfield@gflenv.com
T:
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)