FLEET LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Machine Id
GFL/WCA Rent 449
Component
Diesel Engine
Fluid
{not provided} (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

Valve wear is indicated. All other component wear rates are normal.

CONTAMINATION

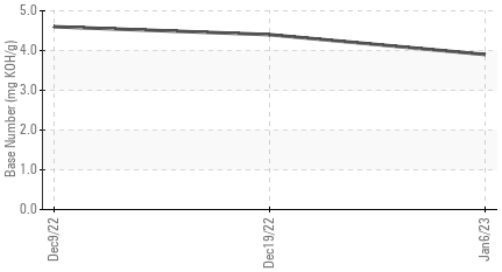
There is no indication of any contamination in the oil.

FLUID CONDITION

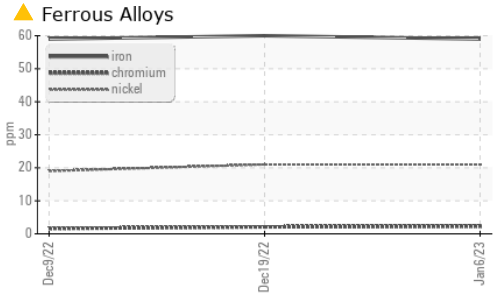
The BN level is low. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0046894	GFL0046885	GFL0046897
Sample Date		Client Info		06 Jan 2023	19 Dec 2022	09 Dec 2022
Machine Age	hrs	Client Info		1858	1699	1629
Oil Age	hrs	Client Info		1858	1699	1629
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>100	59	60	59
Chromium	ppm	ASTM D5185m	>20	2	2	2
Nickel	ppm	ASTM D5185m	>4	▲ 21	▲ 21	▲ 19
Titanium	ppm	ASTM D5185m		3	4	4
Silver	ppm	ASTM D5185m	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	3	4	4
Lead	ppm	ASTM D5185m	>40	2	2	1
Copper	ppm	ASTM D5185m	>330	11	11	12
Tin	ppm	ASTM D5185m	>15	3	2	2
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	8	11	11
Potassium	ppm	ASTM D5185m	>20	4	4	7
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.9	1	0.9
Nitration	Abs/cm	*ASTM D7624	>20	13.2	14.2	13.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.9	29.5	28.9
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
Sodium	ppm	ASTM D5185m		10	10	4
Boron	ppm	ASTM D5185m		22	36	31
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		97	99	104
Manganese	ppm	ASTM D5185m		2	3	2
Magnesium	ppm	ASTM D5185m		715	688	647
Calcium	ppm	ASTM D5185m		1551	1517	1563
Phosphorus	ppm	ASTM D5185m		749	720	712
Zinc	ppm	ASTM D5185m		935	867	889
Sulfur	ppm	ASTM D5185m		2545	2615	2535
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.0	28.7	27.7
Base Number (BN)	mg KOH/g	ASTM D2896		▲ 3.9	4.4	4.6
Visc @ 100°C	cSt	ASTM D445		14.1	13.9	13.8

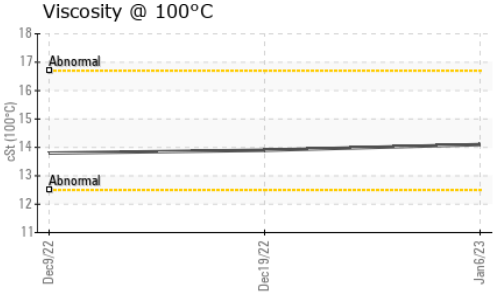
Base Number



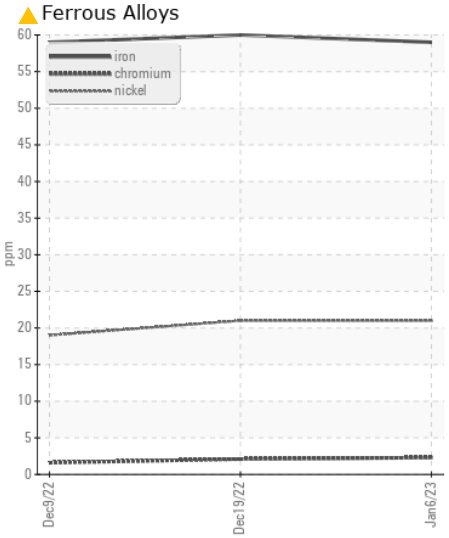
Ferrous Alloys



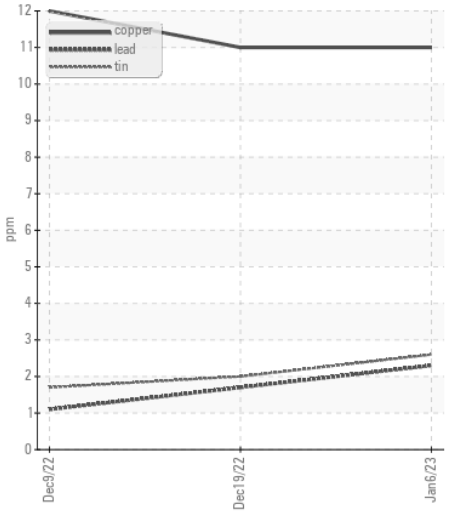
Viscosity @ 100°C



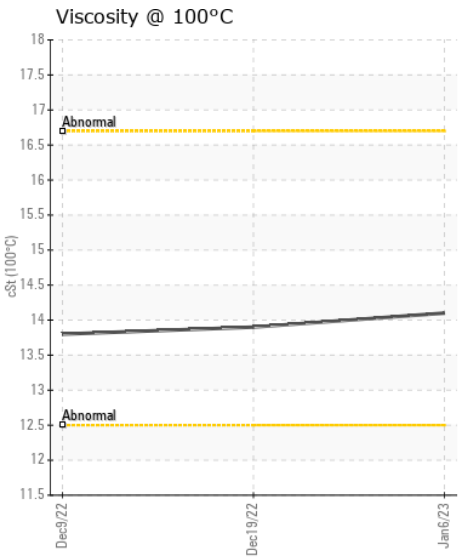
Ferrous Alloys



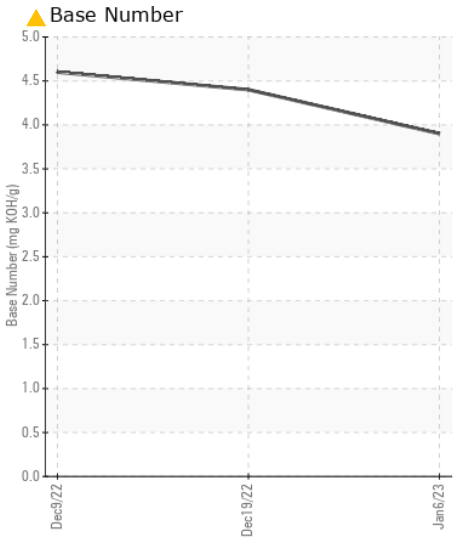
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0046894
Lab Number : 05735511
Unique Number : 10285109
Test Package : FLEET

Recieved : 10 Jan 2023
Diagnosed : 11 Jan 2023
Diagnostician : Don Baldridge

Certificate L2367

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)

GFL Environmental - 9999 - Moved No Longer Used Units

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US
Contact:

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