FLEET LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
834101
Component
Natural Gas Engine
Fluid
{not provided} (--- GAL)

RECOMMENDATION

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

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

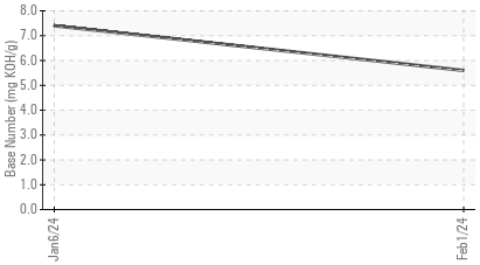
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

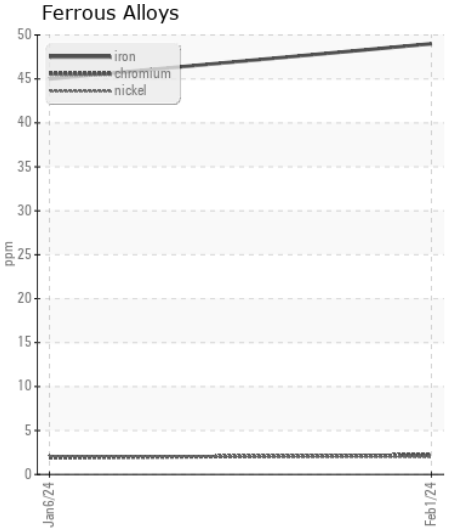
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0108262	GFL0108335	---
Sample Date		Client Info		01 Feb 2024	06 Jan 2024	---
Machine Age	hrs	Client Info		341	156	---
Oil Age	hrs	Client Info		341	156	---
Filter Age	hrs	Client Info		341	0	---
Oil Changed		Client Info		Not Changd	N/A	---
Filter Changed		Client Info		Not Changd	N/A	---
Sample Status				NORMAL	NORMAL	---
Iron	ppm	ASTM D5185m	>50	49	45	---
Chromium	ppm	ASTM D5185m	>4	2	2	---
Nickel	ppm	ASTM D5185m	>2	2	2	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>9	51	42	---
Lead	ppm	ASTM D5185m	>30	<1	<1	---
Copper	ppm	ASTM D5185m	>35	15	15	---
Tin	ppm	ASTM D5185m	>4	<1	1	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>+100	31	32	---
Potassium	ppm	ASTM D5185m	>20	128	123	---
Water		WC Method	>0.1	NEG	NEG	---
Soot %	%	*ASTM D7844		0	0	---
Nitration	Abs/cm	*ASTM D7624	>20	11.2	8.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	20.7	---
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	---
Sodium	ppm	ASTM D5185m		6	7	---
Boron	ppm	ASTM D5185m		28	47	---
Barium	ppm	ASTM D5185m		1	3	---
Molybdenum	ppm	ASTM D5185m		59	61	---
Manganese	ppm	ASTM D5185m		13	13	---
Magnesium	ppm	ASTM D5185m		755	778	---
Calcium	ppm	ASTM D5185m		1071	1160	---
Phosphorus	ppm	ASTM D5185m		717	806	---
Zinc	ppm	ASTM D5185m		869	907	---
Sulfur	ppm	ASTM D5185m		2227	2409	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.7	17.9	---
Base Number (BN)	mg KOH/g	ASTM D2896		5.6	7.4	---
Visc @ 100°C	cSt	ASTM D445		14.1	13.9	---

Base Number

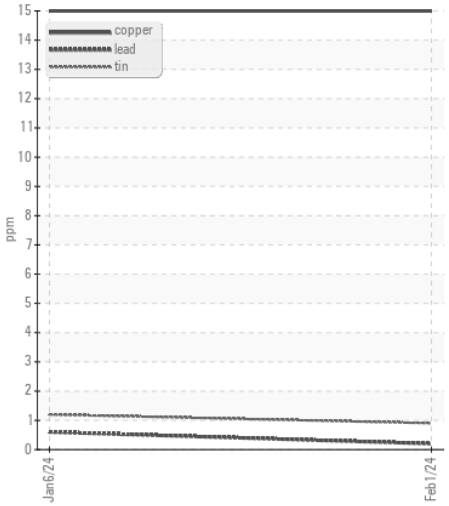


Ferrous Alloys

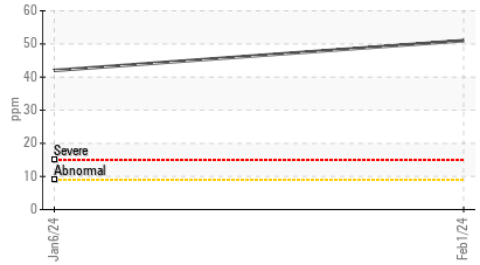


Viscosity @ 100°C

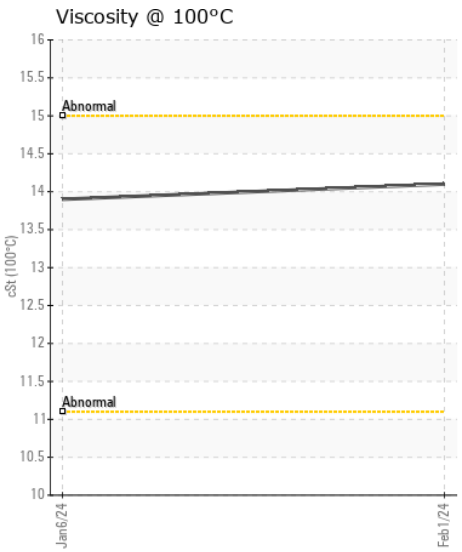
Non-ferrous Metals



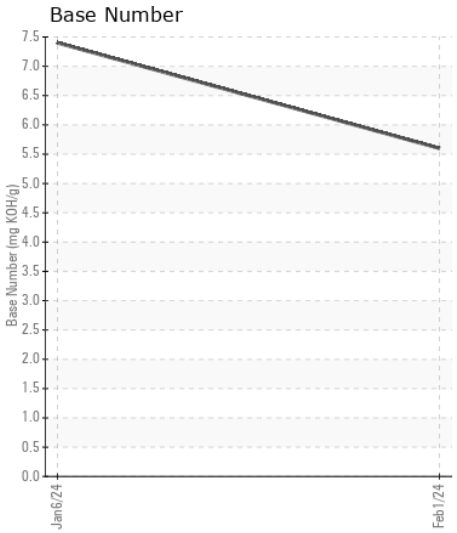
Aluminum (ppm)



Viscosity @ 100°C



Base Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0108262
Lab Number : 06083034
Unique Number : 10870479
Test Package : FLEET

Received : 07 Feb 2024
Tested : 08 Feb 2024
Diagnosed : 08 Feb 2024 - Wes Davis

Certificate L2367

GFL Environmental - 652 - Fredericksburg Hauling
10954 Houser Drive
Fredericksburg, VA
US 22408
Contact: WILLIAM MILO
wmilo@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)