FLEET LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
834090
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

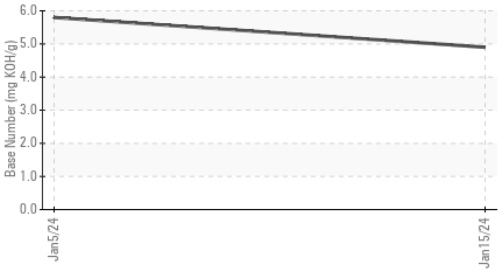
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

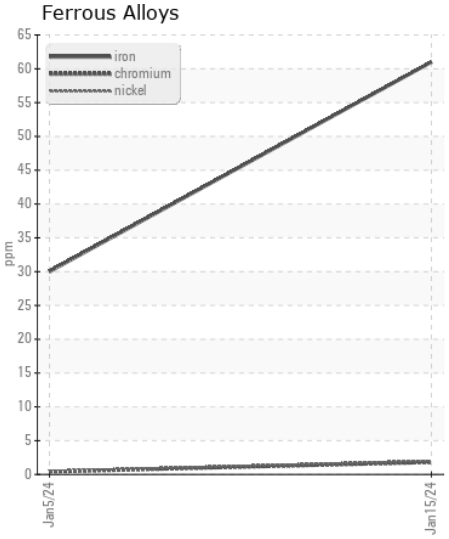
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0098174	GFL0108341	---
Sample Date		Client Info		15 Jan 2024	05 Jan 2024	---
Machine Age	hrs	Client Info		353	180	---
Oil Age	hrs	Client Info		353	180	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	NORMAL	---
Iron	ppm	ASTM D5185m	>50	61	30	---
Chromium	ppm	ASTM D5185m	>4	2	<1	---
Nickel	ppm	ASTM D5185m	>2	2	<1	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>9	36	2	---
Lead	ppm	ASTM D5185m	>30	1	<1	---
Copper	ppm	ASTM D5185m	>35	17	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	33	32	---
Potassium	ppm	ASTM D5185m	>20	119	4	---
Water		WC Method	>0.1	NEG	NEG	---
Soot %	%	*ASTM D7844		0	0	---
Nitration	Abs/cm	*ASTM D7624	>20	11.9	11.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	20.0	---
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	4	---
Boron	ppm	ASTM D5185m		22	14	---
Barium	ppm	ASTM D5185m		<1	4	---
Molybdenum	ppm	ASTM D5185m		55	49	---
Manganese	ppm	ASTM D5185m		13	13	---
Magnesium	ppm	ASTM D5185m		758	768	---
Calcium	ppm	ASTM D5185m		1129	1150	---
Phosphorus	ppm	ASTM D5185m		735	730	---
Zinc	ppm	ASTM D5185m		883	880	---
Sulfur	ppm	ASTM D5185m		2321	2261	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.2	19.0	---
Base Number (BN)	mg KOH/g	ASTM D2896		4.9	5.8	---
Visc @ 100°C	cSt	ASTM D445		13.9	14.0	---

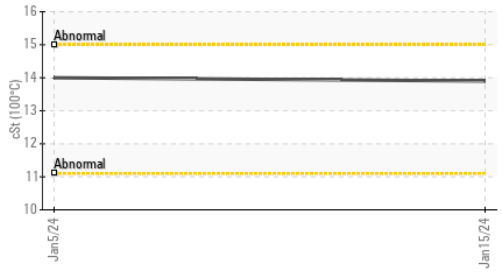
Base Number



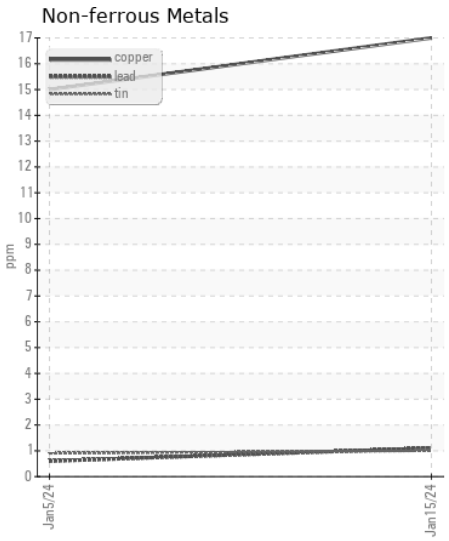
Ferrous Alloys



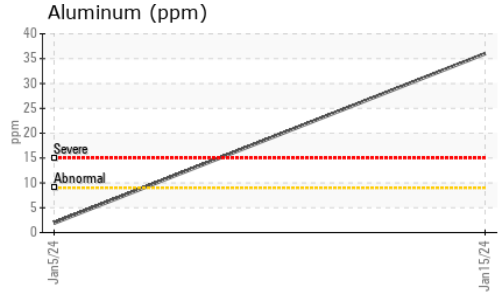
Viscosity @ 100°C



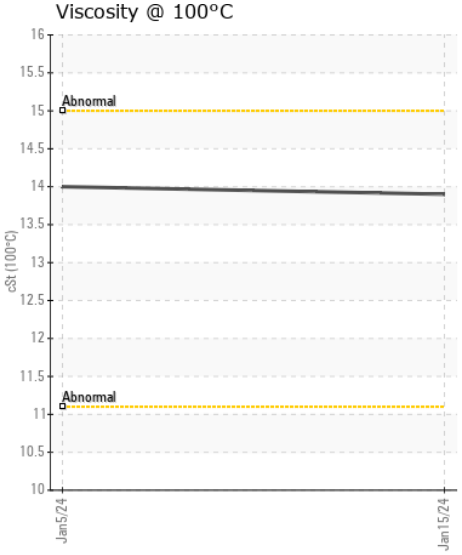
Non-ferrous Metals



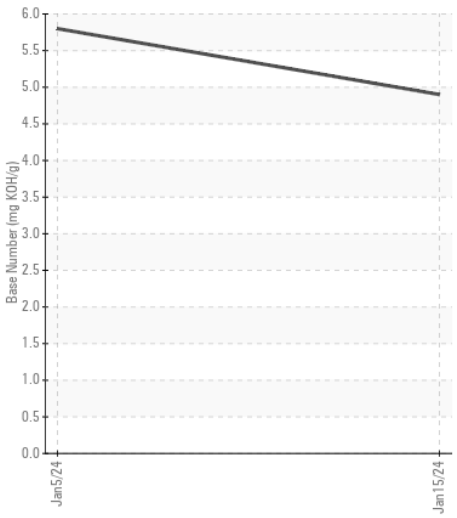
Aluminum (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0098174
Lab Number : 06063341
Unique Number : 10834723
Test Package : FLEET

Recieved : 17 Jan 2024
Diagnosed : 18 Jan 2024
Diagnostician : Wes Davis

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)