FLEET LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
{UNASSIGNED}
Machine Id
834092
Component
Natural Gas Engine
Fluid
CHEVRON DELO 400 LE 15W40 (8 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

All component wear rates are normal.

CONTAMINATION

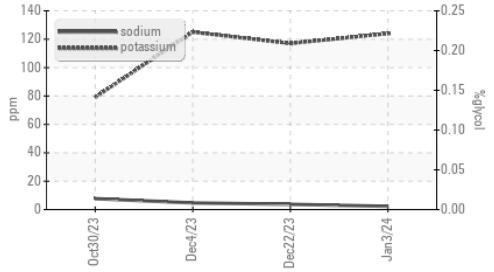
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. No other contaminants were detected in the oil.

FLUID CONDITION

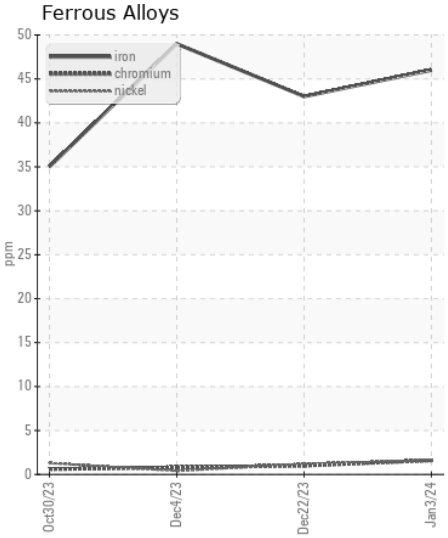
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**GFL0107213**	GFL0101163	GFL0101242
Sample Date		Client Info		**03 Jan 2024**	22 Dec 2023	04 Dec 2023
Machine Age	hrs	Client Info		**595**	502	382
Oil Age	hrs	Client Info		**595**	502	382
Filter Age	hrs	Client Info		**595**	502	382
Oil Changed		Client Info		**Changed**	Not Changd	Not Changd
Filter Changed		Client Info		**Changed**	Not Changd	Not Changd
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>50	**46**	43	49
Chromium	ppm	ASTM D5185m	>4	**2**	1	<1
Nickel	ppm	ASTM D5185m	>2	**2**	1	<1
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m	>3	**0**	0	0
Aluminum	ppm	ASTM D5185m	>9	**31**	26	29
Lead	ppm	ASTM D5185m	>30	**2**	<1	0
Copper	ppm	ASTM D5185m	>35	**15**	17	18
Tin	ppm	ASTM D5185m	>4	**2**	1	<1
Vanadium	ppm	ASTM D5185m		**<1**	0	0
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>+100	**32**	31	37
Potassium	ppm	ASTM D5185m	>20	**124**	117	125
Water		WC Method	>0.1	**NEG**	NEG	NEG
Soot %	%	*ASTM D7844		**0**	0	0
Nitration	Abs/cm	*ASTM D7624	>20	**11.7**	11.3	11.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	**22.1**	22.3	21.7
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	>0.1	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185m		**2**	4	5
Boron	ppm	ASTM D5185m		**8**	11	19
Barium	ppm	ASTM D5185m		**0**	0	5
Molybdenum	ppm	ASTM D5185m		**58**	58	54
Manganese	ppm	ASTM D5185m		**13**	12	13
Magnesium	ppm	ASTM D5185m		**804**	743	682
Calcium	ppm	ASTM D5185m		**1124**	1127	1111
Phosphorus	ppm	ASTM D5185m	1200	**699**	714	598
Zinc	ppm	ASTM D5185m	1300	**966**	922	814
Sulfur	ppm	ASTM D5185m	3200	**2326**	2447	2572
Oxidation	Abs/.1mm	*ASTM D7414	>25	**19.7**	19.5	20.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.6	**2.6**	4.0	4.4
Visc @ 100°C	cSt	ASTM D445	15.7	**14.1**	14.2	13.8

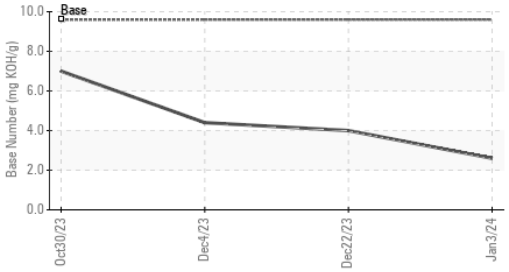
Glycol Contamination



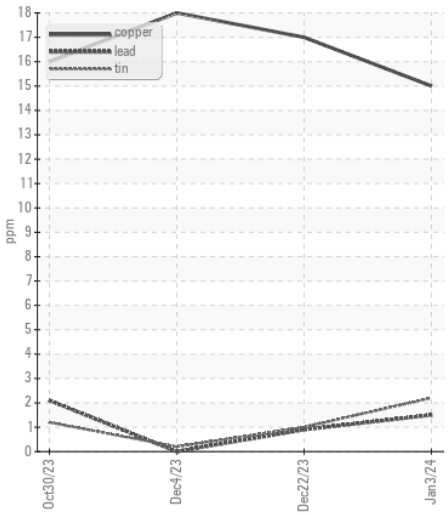
Ferrous Alloys



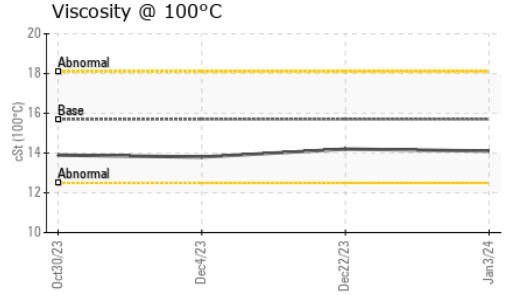
Base Number



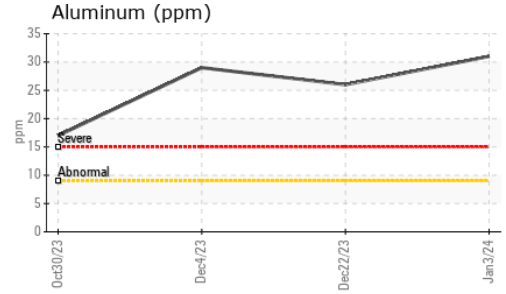
Non-ferrous Metals



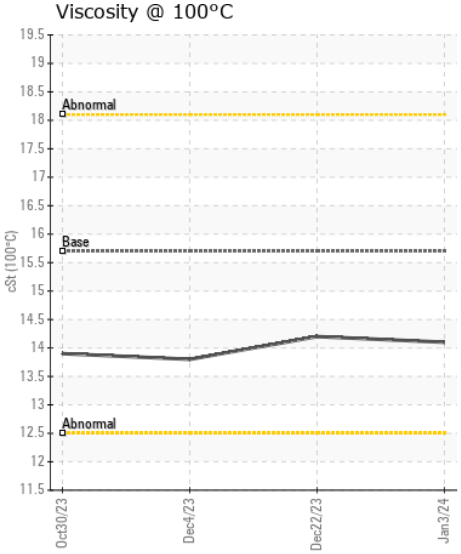
Viscosity @ 100°C



Aluminum (ppm)



Viscosity @ 100°C



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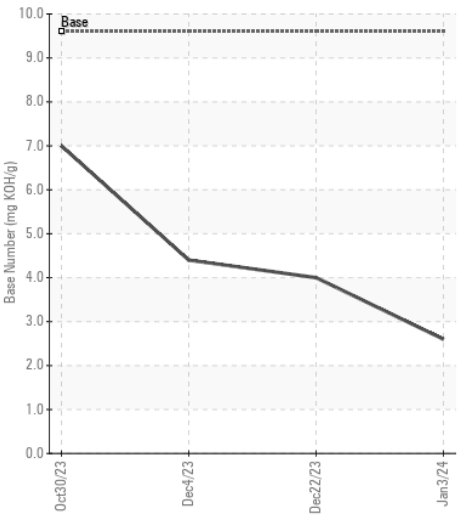

Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: GFL0107213	**Recieved**	: 11 Jan 2024
Lab Number	: 06057857	**Diagnosed**	: 12 Jan 2024
Unique Number	: 10829239	**Diagnostician**	: Don Baldridge
Test Package	: FLEET		

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 - 010 - Stockbridge
1280 Rum Creek Parkway
Stockbridge, GA
US 30281
Contact: JOSHUA TINKER
joshuatinker@gflenv.com
T:
F: