FLEET LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
834096
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON GEO LD 15W40 (28 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

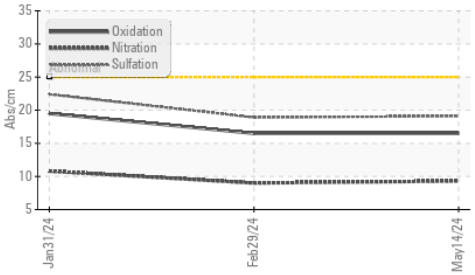
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

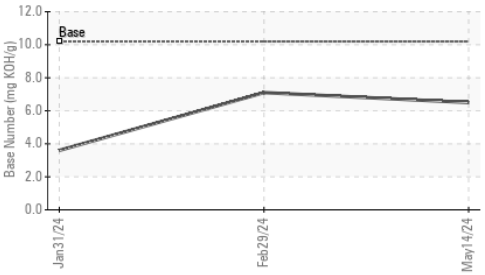
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0121918	GFL0106770	GFL0092172
Sample Date		Client Info		14 May 2024	29 Feb 2024	31 Jan 2024
Machine Age	hrs	Client Info		1203	895	644
Oil Age	hrs	Client Info		895	644	644
Filter Age	hrs	Client Info		895	644	644
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>50	23	13	48
Chromium	ppm	ASTM D5185m	>4	<1	1	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>9	13	5	25
Lead	ppm	ASTM D5185m	>30	<1	<1	2
Copper	ppm	ASTM D5185m	>35	1	2	12
Tin	ppm	ASTM D5185m	>4	<1	<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	6	7	22
Potassium	ppm	ASTM D5185m	>20	47	16	▲ 108
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	9.3	9.0	10.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	18.9	22.4
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		7	6	4
Boron	ppm	ASTM D5185m	50	13	23	13
Barium	ppm	ASTM D5185m	5	0	0	<1
Molybdenum	ppm	ASTM D5185m	50	55	48	52
Manganese	ppm	ASTM D5185m	0	1	1	8
Magnesium	ppm	ASTM D5185m	560	586	540	636
Calcium	ppm	ASTM D5185m	1510	1753	1416	1148
Phosphorus	ppm	ASTM D5185m	780	835	784	665
Zinc	ppm	ASTM D5185m	870	980	937	879
Sulfur	ppm	ASTM D5185m	2040	2880	2675	2327
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	16.5	19.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	6.5	7.1	3.6
Visc @ 100°C	cSt	ASTM D445	15.1	14.7	14.4	14.3

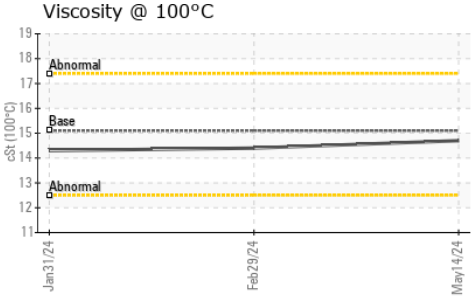
FT-IR (Direct Trend)



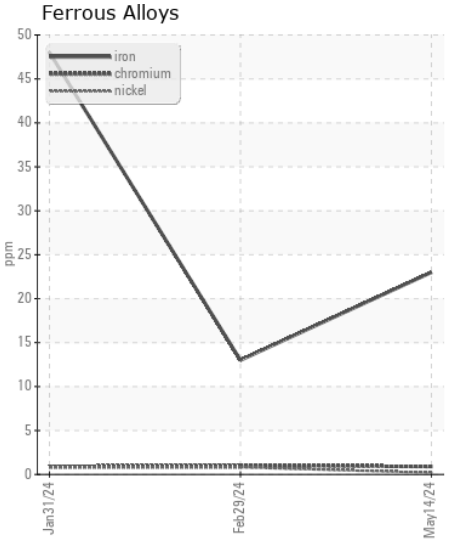
Base Number



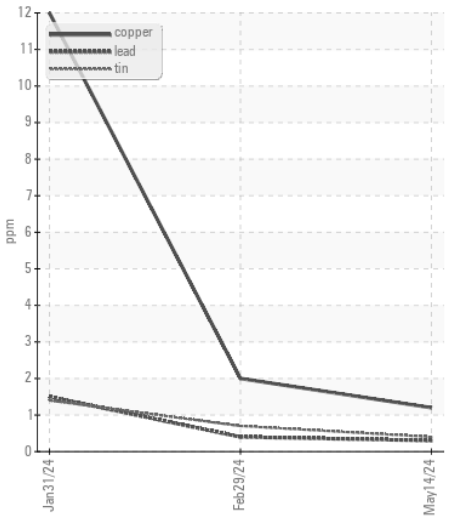
Viscosity @ 100°C



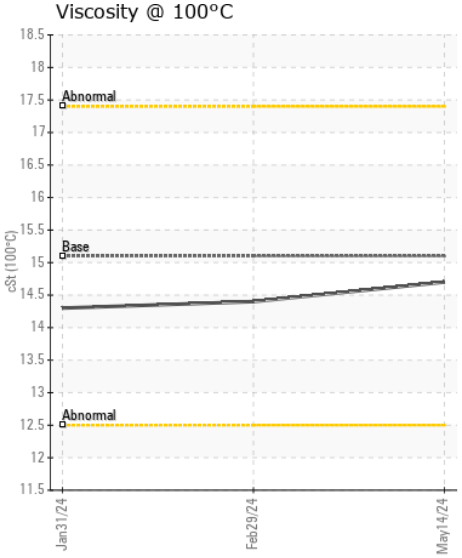
Ferrous Alloys



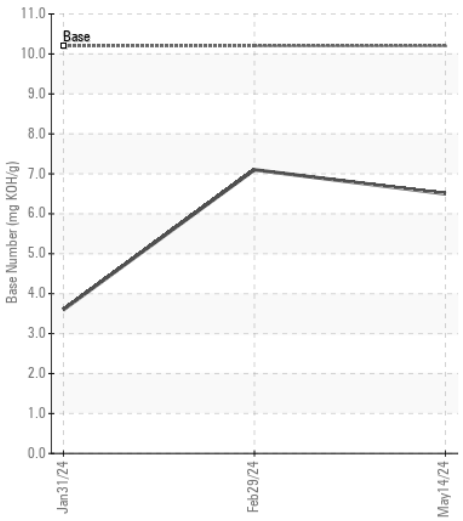
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: GFL0121918	**Received**	: 23 May 2024
Lab Number	: 06188808	**Tested**	: 24 May 2024
Unique Number	: 11045560	**Diagnosed**	: 24 May 2024 - Wes Davis
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 - 856 - Houston South
8515 Highway 6 South
Houston, TX
US 77083
Contact: Jose Gonzalez
jgonzalez2@gflenv.com
T:
F: