FLEET LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(TMV9215)
Machine Id
934065
Component
1 Natural Gas Engine
Fluid
PETRO CANADA DURON GEO LD 15W40 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Engine oil sample)

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

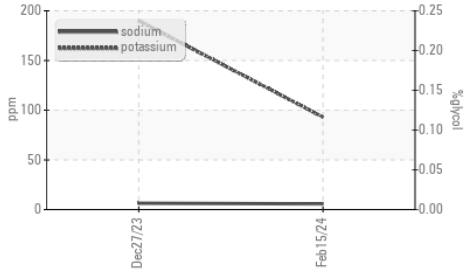
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0103937	GFL0100547	---
Sample Date		Client Info		15 Feb 2024	27 Dec 2023	---
Machine Age	mls	Client Info		1005	585	---
Oil Age	mls	Client Info		1005	585	---
Filter Age	mls	Client Info		0	585	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				NORMAL	NORMAL	---
Iron	ppm	ASTM D5185m	>50	17	47	---
Chromium	ppm	ASTM D5185m	>4	1	2	---
Nickel	ppm	ASTM D5185m	>2	<1	2	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>9	29	56	---
Lead	ppm	ASTM D5185m	>30	<1	<1	---
Copper	ppm	ASTM D5185m	>35	3	17	---
Tin	ppm	ASTM D5185m	>4	1	2	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>+100	8	38	---
Potassium	ppm	ASTM D5185m	>20	93	190	---
Water		WC Method	>0.1	NEG	NEG	---
Soot %	%	*ASTM D7844		0	0	---
Nitration	Abs/cm	*ASTM D7624	>20	10.4	12.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	23.7	---
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	6	---
Boron	ppm	ASTM D5185m	50	10	11	---
Barium	ppm	ASTM D5185m	5	0	2	---
Molybdenum	ppm	ASTM D5185m	50	52	57	---
Manganese	ppm	ASTM D5185m	0	2	18	---
Magnesium	ppm	ASTM D5185m	560	566	790	---
Calcium	ppm	ASTM D5185m	1510	1523	1201	---
Phosphorus	ppm	ASTM D5185m	780	696	711	---
Zinc	ppm	ASTM D5185m	870	918	922	---
Sulfur	ppm	ASTM D5185m	2040	2295	2349	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4	21.7	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	5.8	3.8	---
Visc @ 100°C	cSt	ASTM D445	15.1	14.6	14.4	---

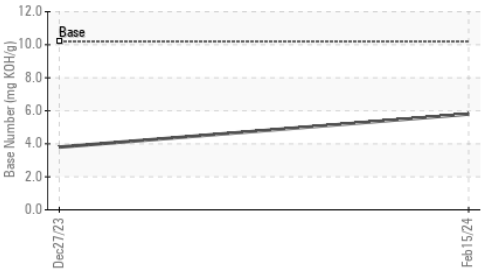
Report Id: GFL865 [WUSCAR] 06097510 (Generated: 02/24/2024 13:28:00) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

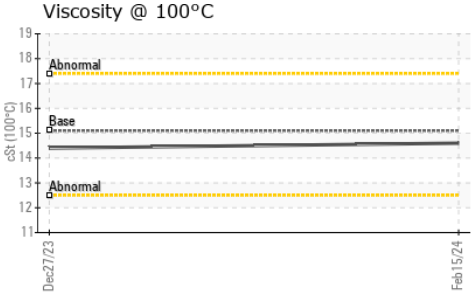
Glycol Contamination



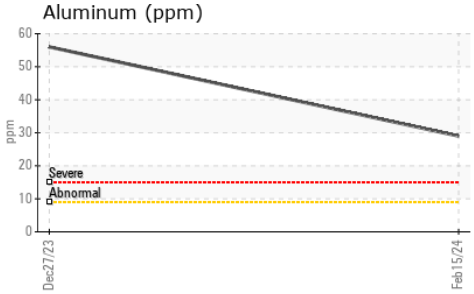
Base Number



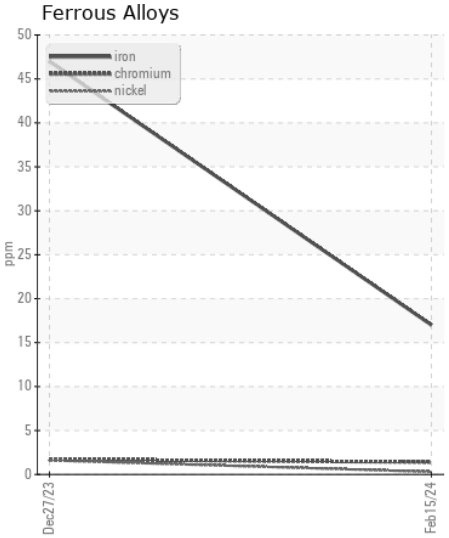
Viscosity @ 100°C



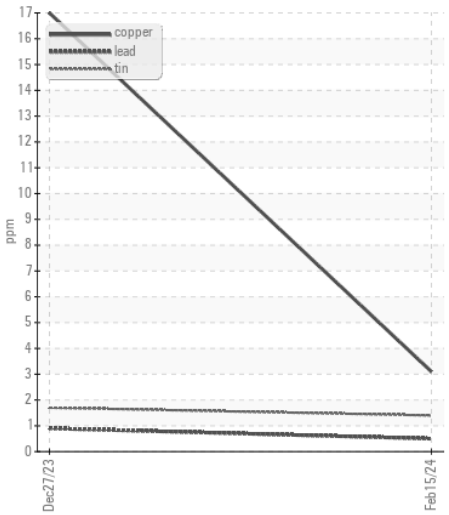
Aluminum (ppm)



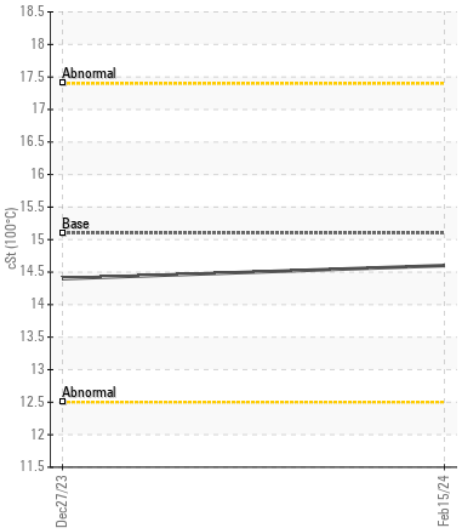
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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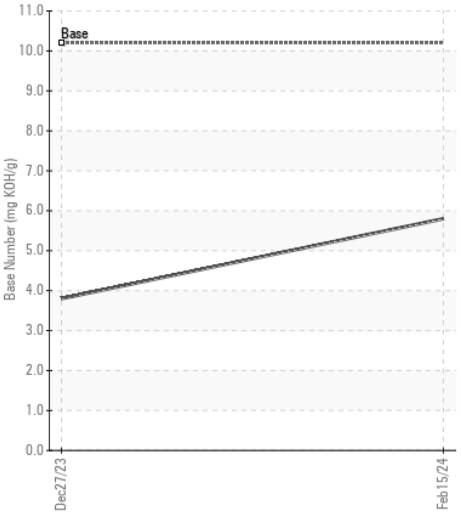

Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: GFL0103937	**Received**	: 22 Feb 2024
Lab Number	: 06097510	**Tested**	: 23 Feb 2024
Unique Number	: 10890363	**Diagnosed**	: 24 Feb 2024 - Don Baldridge
Test Package	: FLEET		

GFL Environmental - 865 - East Mount Hauling
7213 East Mount Houston Road
Houston, TX
US 77050
Contact: TECHNICIAN ACCOUNT
wcgfldemo@gmail.com
T:
F:

To discuss this sample report, contact Customer Service at 1-800-237-1369.
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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)