



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(P1713H)
Machine Id
428054- 402376
Component
Diesel Engine
Fluid
PETRO CANADA DURON GEO LD 15W40 (7 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0081086	GFL0081043	GFL0081112
Sample Date		Client Info		30 Jan 2024	18 Dec 2023	12 Oct 2023
Machine Age	hrs	Client Info		12718	12499	12183
Oil Age	hrs	Client Info		600	316	600
Filter Age	hrs	Client Info		600	316	600
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>165	4	5	14
Chromium	ppm	ASTM D5185m	>5	0	<1	1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	2	1	2
Lead	ppm	ASTM D5185m	>150	2	2	9
Copper	ppm	ASTM D5185m	>90	2	<1	1
Tin	ppm	ASTM D5185m	>5	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

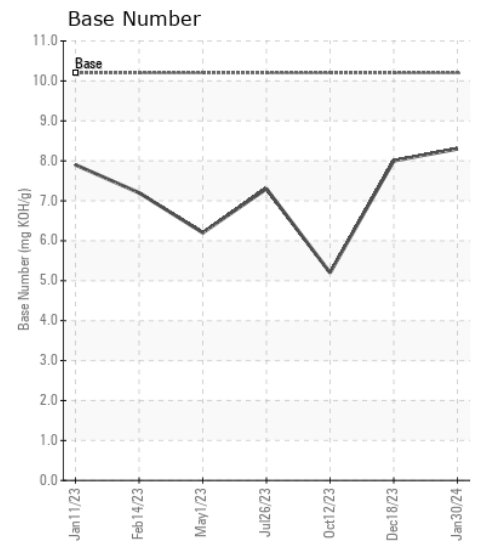
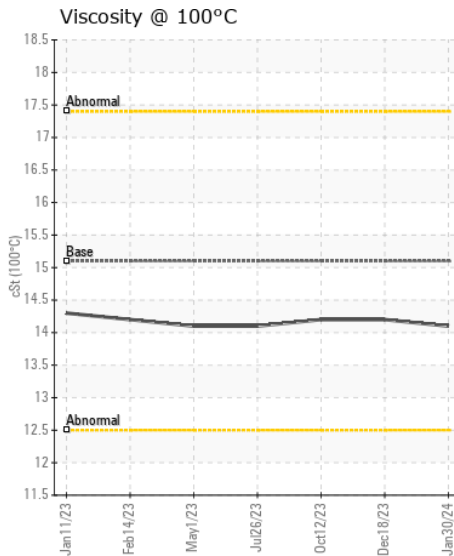
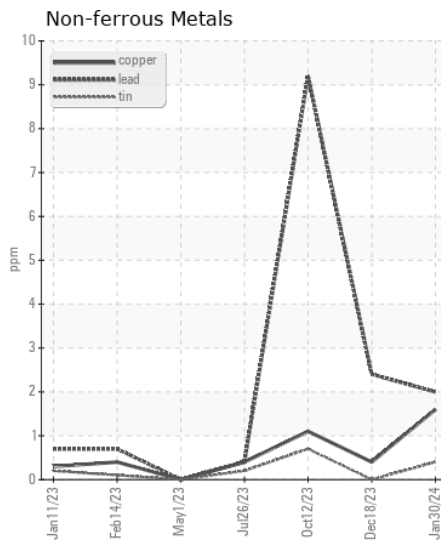
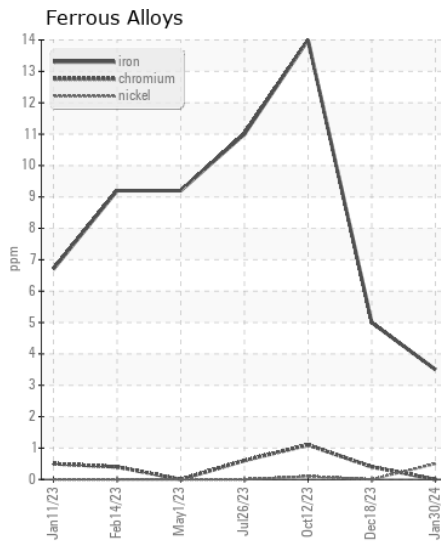
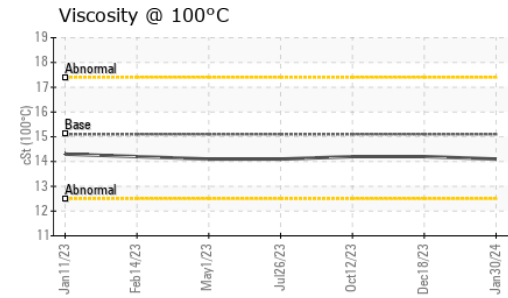
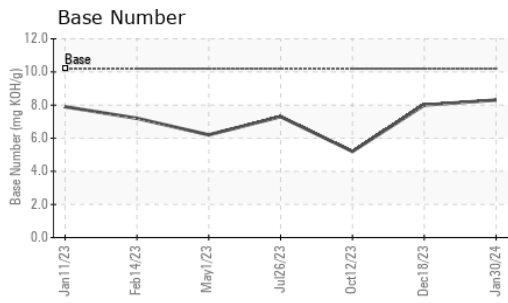
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	4	4	5
Potassium	ppm	ASTM D5185m	>20	3	<1	4
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>7.5	0.3	0.5	0.9
Nitration	Abs/cm	*ASTM D7624	>20	7.8	8.7	11.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	20.8	23.3
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	>0.2	NEG	NEG	NEG

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.

Sodium	ppm	ASTM D5185m		4	4	7
Boron	ppm	ASTM D5185m	50	34	28	14
Barium	ppm	ASTM D5185m	5	0	0	12
Molybdenum	ppm	ASTM D5185m	50	49	48	51
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	560	525	513	497
Calcium	ppm	ASTM D5185m	1510	1468	1474	1552
Phosphorus	ppm	ASTM D5185m	780	812	691	695
Zinc	ppm	ASTM D5185m	870	936	889	931
Sulfur	ppm	ASTM D5185m	2040	2510	2302	2304
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	17.3	20.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	8.3	8.0	5.2
Visc @ 100°C	cSt	ASTM D445	15.1	14.1	14.2	14.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0081086 **Received** : 31 Jan 2024
Lab Number : 06075578 **Diagnosed** : 01 Feb 2024
Unique Number : 10857669 **Diagnostician** : Wes Davis
Test Package : FLEET

GFL Environmental - 884 - Lake County - Tavares
 321 Southridge Industrial Way
 Tavares, FL
 US 32778
 Contact: JEFF COOPERSMITH

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)

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F: