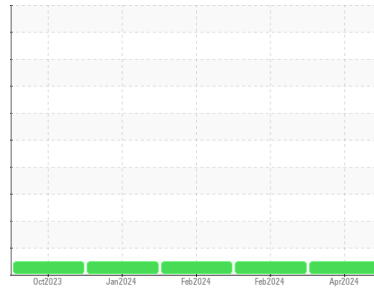




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
(THG7557)

Machine Id
733028

Component
Natural Gas Engine

Fluid
PETRO CANADA DURON GEO LD 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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.

SAMPLE INFORMATION

method	limit/base	current	history1	history2	
Sample Number	Client Info	GFL0114435	GFL0114460	GFL0103981	
Sample Date	Client Info	05 Apr 2024	24 Feb 2024	08 Feb 2024	
Machine Age	hrs	Client Info	1794	1492	1748
Oil Age	hrs	Client Info	0	1492	1748
Oil Changed	Client Info	Changed	Not Changd	Changed	
Sample Status		NORMAL	NORMAL	NORMAL	

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >50	14	9	15
Chromium	ppm	ASTM D5185m >4	1	<1	<1
Nickel	ppm	ASTM D5185m >2	1	0	0
Titanium	ppm	ASTM D5185m	<1	0	0
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >9	4	1	2
Lead	ppm	ASTM D5185m >30	1	<1	0
Copper	ppm	ASTM D5185m >35	3	<1	2
Tin	ppm	ASTM D5185m >4	1	0	<1
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 50	15	13	6
Barium	ppm	ASTM D5185m 5	<1	0	0
Molybdenum	ppm	ASTM D5185m 50	51	50	57
Manganese	ppm	ASTM D5185m 0	3	<1	<1
Magnesium	ppm	ASTM D5185m 560	620	636	586
Calcium	ppm	ASTM D5185m 1510	1563	1774	1618
Phosphorus	ppm	ASTM D5185m 780	692	875	725
Zinc	ppm	ASTM D5185m 870	906	1094	977
Sulfur	ppm	ASTM D5185m 2040	2328	2830	2338

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >+100	11	5	6
Sodium	ppm	ASTM D5185m	8	6	11
Potassium	ppm	ASTM D5185m >20	5	1	2

INFRA-RED

method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	0	0	0.1
Nitration	Abs/cm	*ASTM D7624 >20	9.2	10.2	11.1
Sulfation	Abs/.1mm	*ASTM D7415 >30	24.3	20.0	22.2

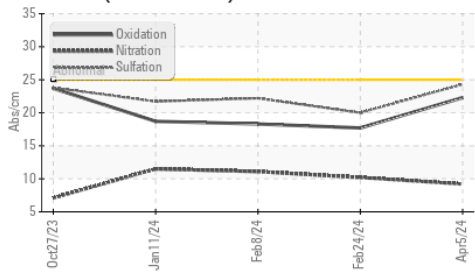
FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414 >25	22.3	17.7	18.3
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	6.2	5.8	5.0

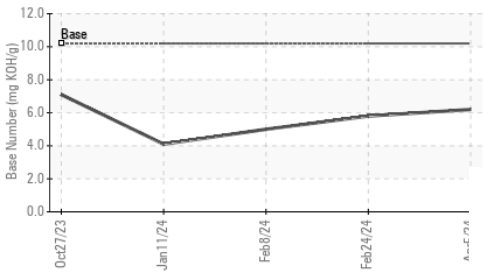


OIL ANALYSIS REPORT

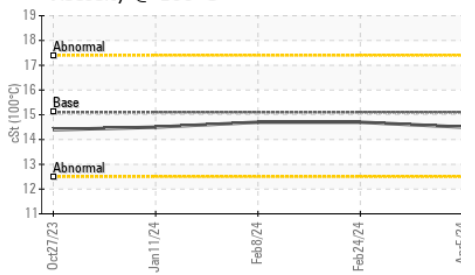
FT-IR (Direct Trend)



Base Number



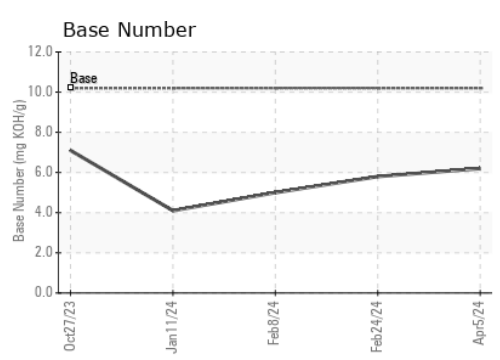
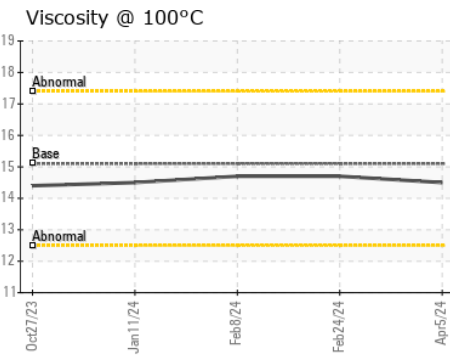
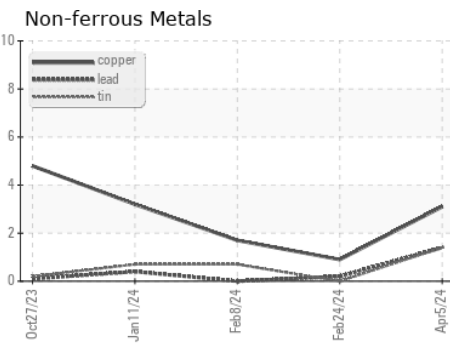
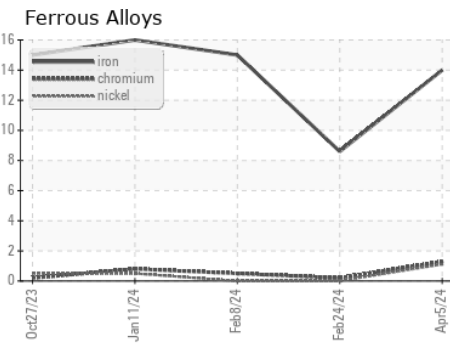
Viscosity @ 100°C



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
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
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.5	14.7

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0114435 **Received** : 09 Apr 2024
Lab Number : 06143560 **Tested** : 10 Apr 2024
Unique Number : 10968368 **Diagnosed** : 12 Apr 2024 - Don Baldrige
Test Package : FLEET

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

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)

T:
F: