



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(P830962)

Machine Id
932001

Component
Diesel Engine

Fluid
PETRO CANADA DURON GEO LD 15W40 (40 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0101773	GFL0090083	GFL0090097
Sample Date		Client Info		12 Jan 2024	06 Dec 2023	03 Oct 2023
Machine Age	hrs	Client Info		5208	5208	4746
Oil Age	hrs	Client Info		600	600	600
Filter Age	hrs	Client Info		600	600	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	4
Chromium	ppm	ASTM D5185m	>5	0	<1	0
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	3	<1
Lead	ppm	ASTM D5185m	>150	3	2	<1
Copper	ppm	ASTM D5185m	>90	2	3	1
Tin	ppm	ASTM D5185m	>5	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

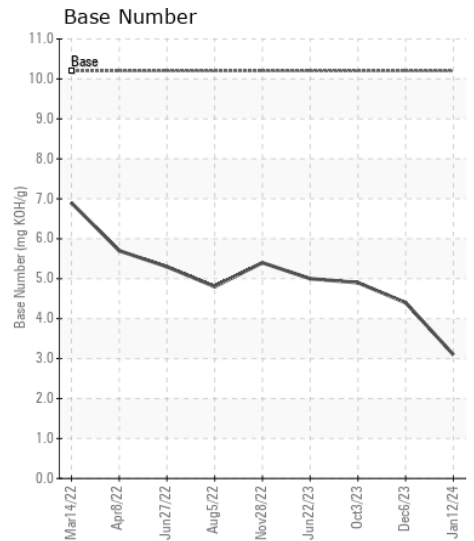
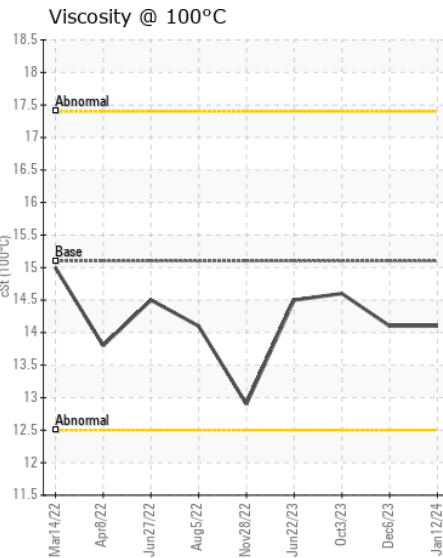
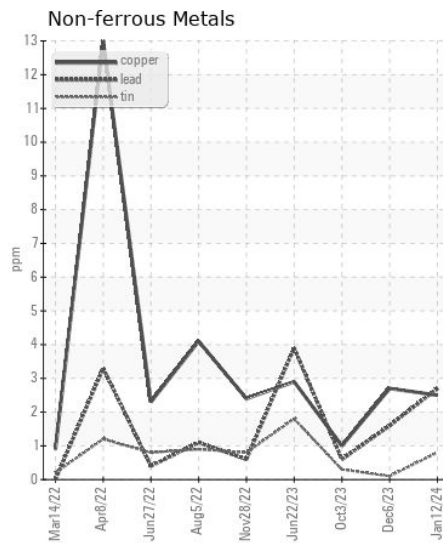
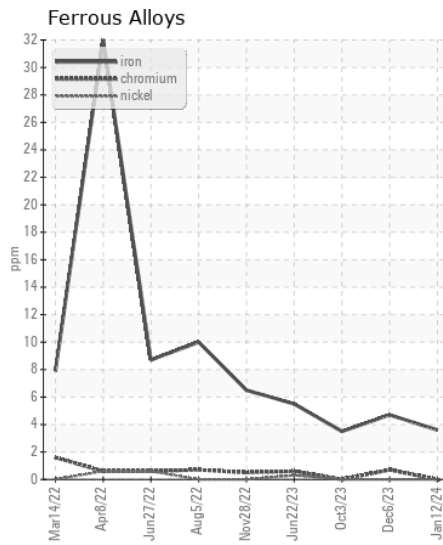
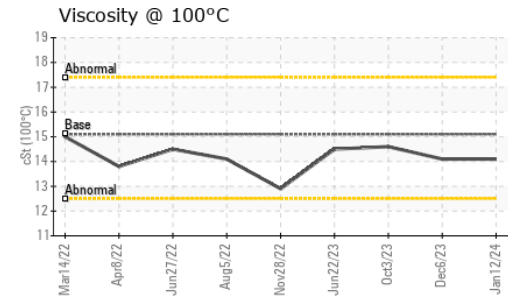
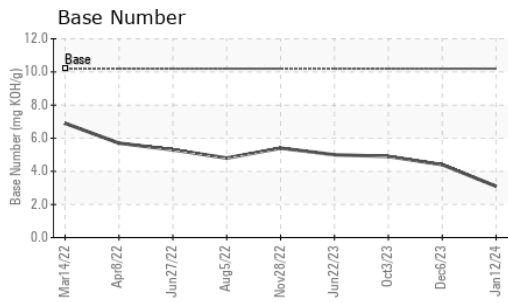
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	7	10	4
Potassium	ppm	ASTM D5185m	>20	1	5	<1
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	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	11.2	12.2	9.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7	22.8	20.2
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		6	9	6
Boron	ppm	ASTM D5185m	50	6	5	8
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	46	49	50
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	543	578	556
Calcium	ppm	ASTM D5185m	1510	1467	1613	1582
Phosphorus	ppm	ASTM D5185m	780	701	763	689
Zinc	ppm	ASTM D5185m	870	913	982	937
Sulfur	ppm	ASTM D5185m	2040	2311	2438	2383
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.1	20.1	17.6
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	3.1	4.4	4.9
Visc @ 100°C	cSt	ASTM D445	15.1	14.1	14.1	14.6



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0101773 **Received** : 18 Jan 2024
Lab Number : 06064159 **Diagnosed** : 19 Jan 2024
Unique Number : 10835541 **Diagnostician** : Wes Davis
Test Package : FLEET

GFL Environmental - 030 - Conway Myrtle Beach
 3010 HWY 378
 Conway, SC
 US 29527
 Contact: ARCILIO RUEZ
 aruiz@gflenv.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)