



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
930020

Component
Diesel Engine

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

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0084300	GFL0060174	GFL0049140
Sample Date		Client Info		04 Jan 2024	22 Sep 2022	26 Apr 2022
Machine Age	hrs	Client Info		5499	2318	1234
Oil Age	hrs	Client Info		1010	1087	1234
Filter Age	hrs	Client Info		1010	1087	1234
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 D5185(m)	>100	17	15	49
Chromium	ppm	ASTM D5185(m)	>20	1	1	2
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	1
Titanium	ppm	ASTM D5185(m)		0	<1	15
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	4	4
Lead	ppm	ASTM D5185(m)	>40	<1	1	3
Copper	ppm	ASTM D5185(m)	>330	1	2	13
Tin	ppm	ASTM D5185(m)	>15	<1	<1	2
Vanadium	ppm	ASTM D5185(m)		0	0	<1

CONTAMINATION

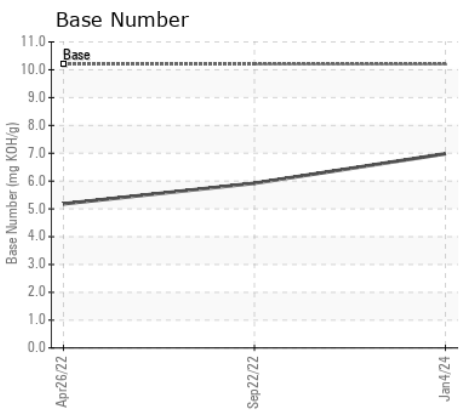
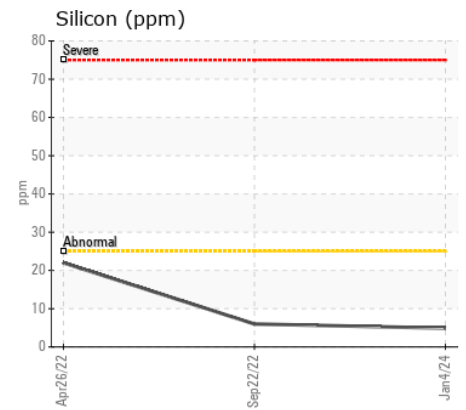
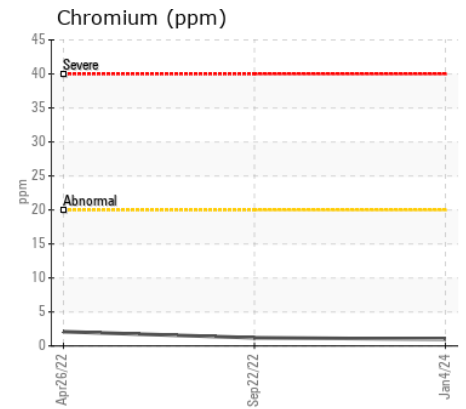
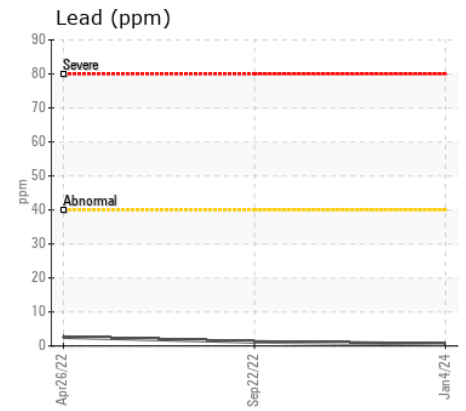
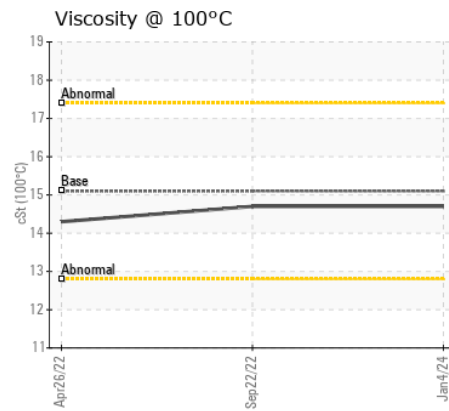
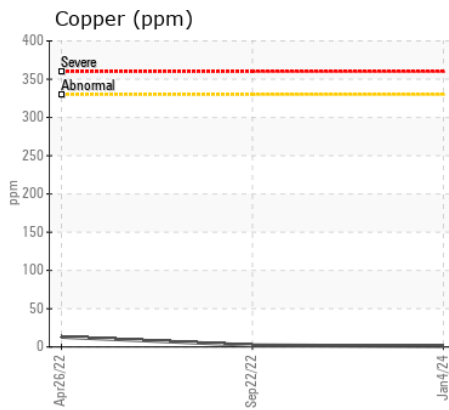
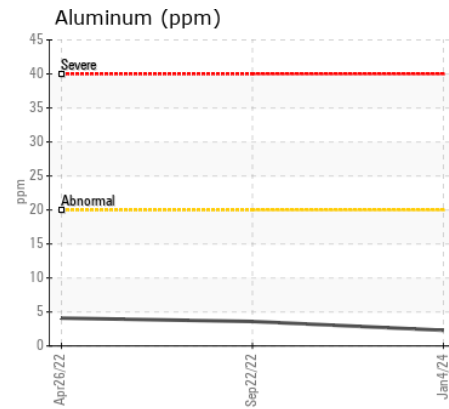
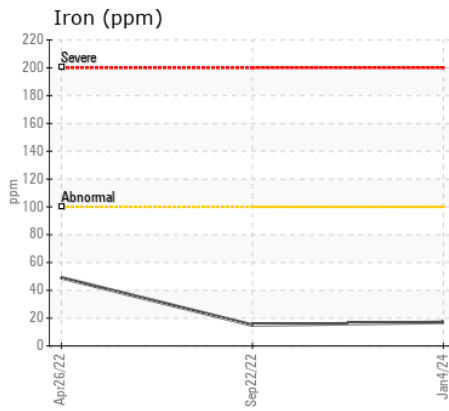
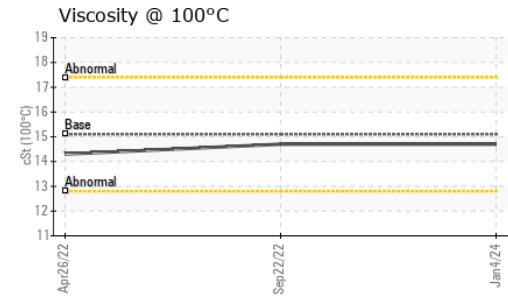
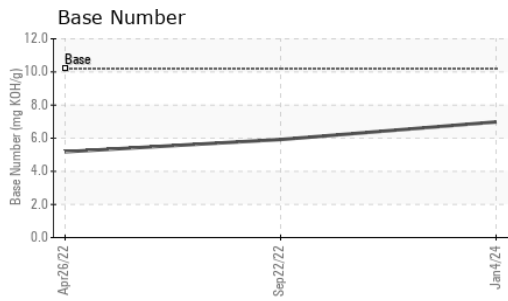
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	6	22
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	3
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	11.6	11.7	12.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.0	25.3	29.8
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 D5185(m)		7	7	8
Boron	ppm	ASTM D5185(m)	50	12	8	8
Barium	ppm	ASTM D5185(m)	5	0	0	4
Molybdenum	ppm	ASTM D5185(m)	50	55	56	58
Manganese	ppm	ASTM D5185(m)	0	<1	1	10
Magnesium	ppm	ASTM D5185(m)	560	571	612	619
Calcium	ppm	ASTM D5185(m)	1510	1672	1684	1541
Phosphorus	ppm	ASTM D5185(m)	780	715	792	821
Zinc	ppm	ASTM D5185(m)	870	921	972	1013
Sulfur	ppm	ASTM D5185(m)	2040	2055	2064	2161
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.9	21.1	22.7
Base Number (BN)	mg KOH/g	ASTM D2896*	10.2	6.98	5.92	5.18
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	14.7	14.7	14.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County
Sample No. : GFL0084300 **Received** : 16 Jan 2024
Lab Number : 02608851 **Diagnosed** : 16 Jan 2024
Unique Number : 5709937 **Diagnostician** : Wes Davis
Test Package : MOB 2

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

220 Carmek Blvd
 Rocky View County, AB
 CA T1X 1X1
 Contact: GFL Calgary
 calgarymaintenance@gflenv.com
 T:
 F: (403)369-6163