



Machine Id
7105
Component
1 Natural Gas Engine
Fluid
PETRO CANADA DURON GEO LD 15W40 (24 LTR)

RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0086788	GFL0055416	GFL0022731
Sample Date		Client Info		21 Feb 2024	02 Sep 2022	18 May 2021
Machine Age	hrs	Client Info		14843	12813	0
Oil Age	hrs	Client Info		14843	0	0
Filter Age	hrs	Client Info		14843	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	MARGINAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	21	22	12
Chromium	ppm	ASTM D5185(m)	>4	2	▲ 4	1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>9	3	2	2
Lead	ppm	ASTM D5185(m)	>30	2	<1	<1
Copper	ppm	ASTM D5185(m)	>35	2	2	10
Tin	ppm	ASTM D5185(m)	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

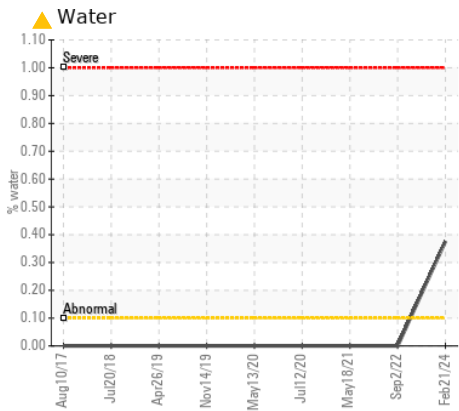
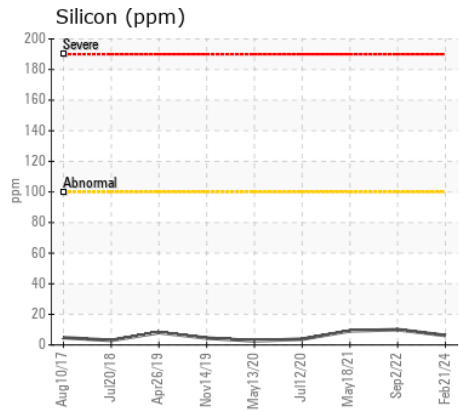
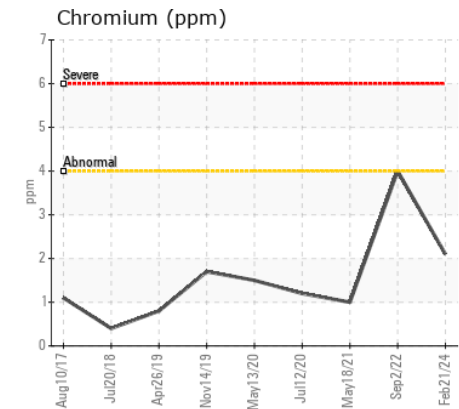
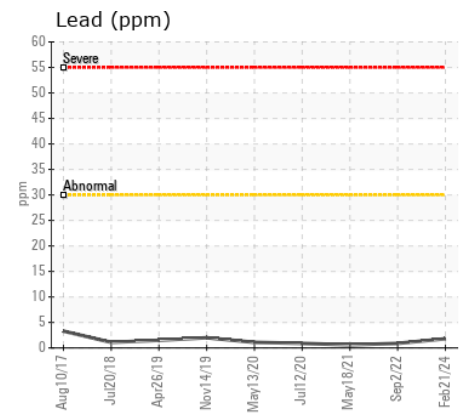
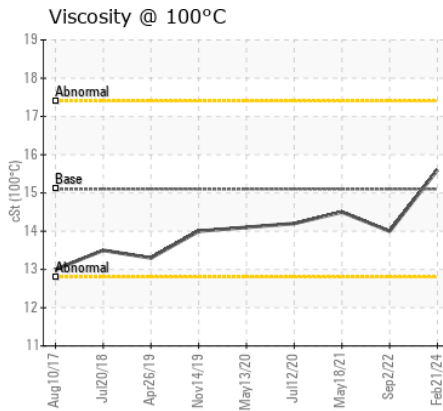
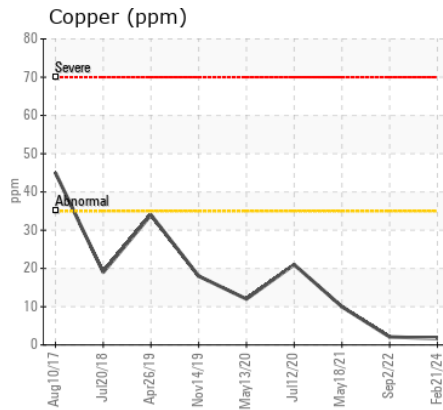
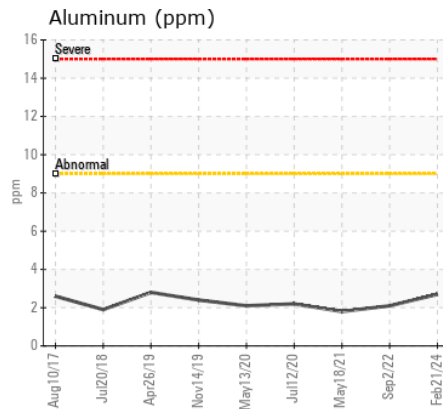
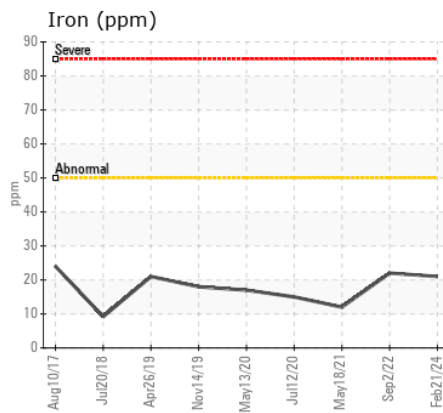
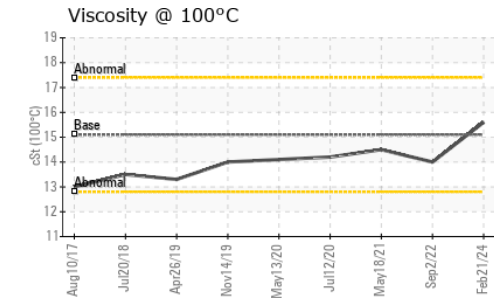
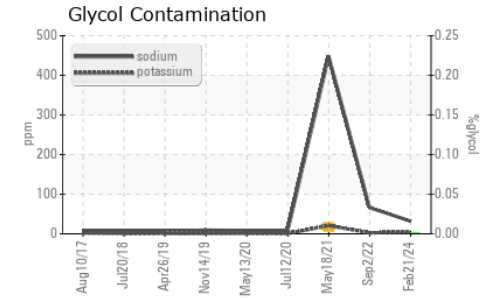
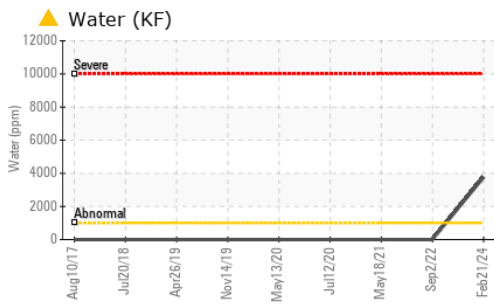
There is a moderate concentration of water present in the oil. Test for glycol is negative.

Silicon	ppm	ASTM D5185(m)	>+100	6	10	9
Potassium	ppm	ASTM D5185(m)	>20	4	2	▲ 21
Water	%	ASTM D6304*	>0.1	▲ 0.376	---	---
ppm Water	ppm	ASTM D6304*	>1000	▲ 3767	---	---
Glycol	%	ASTM D7922*		0.0	---	▲ 0.014
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	13.2	11.7	11.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.8	24.9	21.0
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	▲ .2%	NEG	NEG

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)		32	66	▲ 448
Boron	ppm	ASTM D5185(m)	50	8	8	16
Barium	ppm	ASTM D5185(m)	5	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	50	57	58	49
Manganese	ppm	ASTM D5185(m)	0	<1	1	<1
Magnesium	ppm	ASTM D5185(m)	560	570	478	557
Calcium	ppm	ASTM D5185(m)	1510	1637	1563	1413
Phosphorus	ppm	ASTM D5185(m)	780	754	715	734
Zinc	ppm	ASTM D5185(m)	870	935	874	932
Sulfur	ppm	ASTM D5185(m)	2040	2218	2039	2001
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.3	19.5	16.7
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	15.6	14.0	14.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0086788
Lab Number : 02617341
Unique Number : 5734451
Test Package : MOB 1 (Additional Tests: Glycol, KF, Visual)

GFL Environmental - 222 - Sandhill
 SANDHILL DISPOSAL & RECYCLING DIVIS, 19 COMMERCE ROAD
 ORANGEVILLE, ON
 CA L9W 3X5
 Contact: GLENN COOK
 gcook@gflenv.com
 T: (519)940-4167
 F:

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.