



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
934059
 Component
Natural Gas Engine
 Fluid
PETRO CANADA DURON GEO LD 15W40 (--- GAL)

RECOMMENDATION

Please note that all wear metal and contaminant levels are being considered accumulative. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using MOB 2 test kits, this testkit includes BN to determine the suitability of the oil for continued use.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0096817	---	---
Sample Date		Client Info		24 Apr 2024	---	---
Machine Age	hrs	Client Info		1976	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		1200	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---

WEAR

Aluminum ppm levels are abnormal. Piston wear is indicated.

PQ		ASTM D8184*		0	---	---
Iron	ppm	ASTM D5185(m)	>50	53	---	---
Chromium	ppm	ASTM D5185(m)	>4	1	---	---
Nickel	ppm	ASTM D5185(m)	>2	2	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>3	0	---	---
Aluminum	ppm	ASTM D5185(m)	>9	▲ 18	---	---
Lead	ppm	ASTM D5185(m)	>30	<1	---	---
Copper	ppm	ASTM D5185(m)	>35	11	---	---
Tin	ppm	ASTM D5185(m)	>4	1	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---

CONTAMINATION

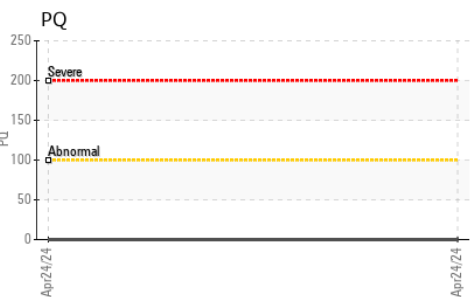
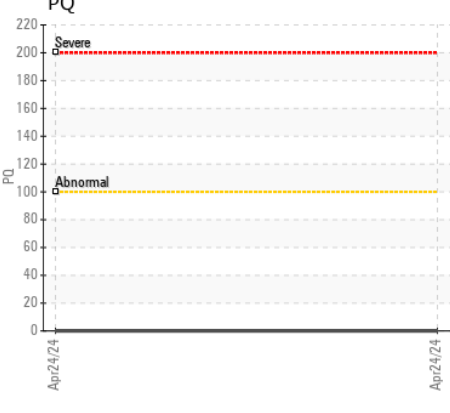
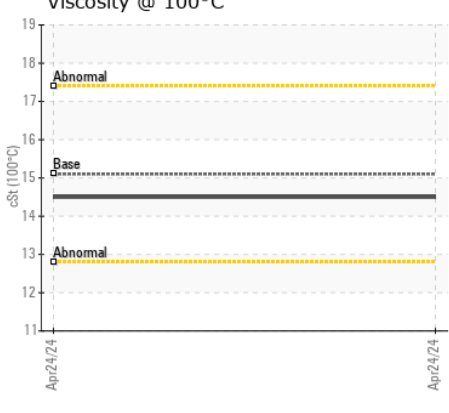
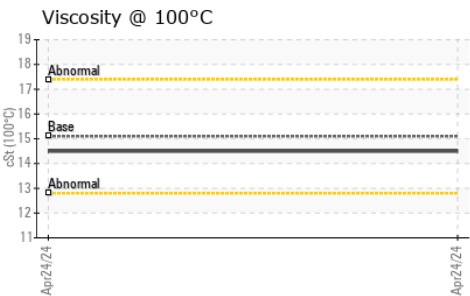
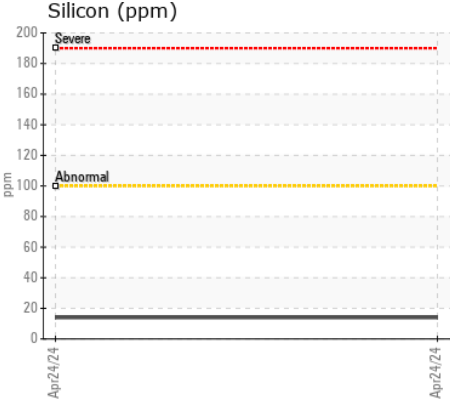
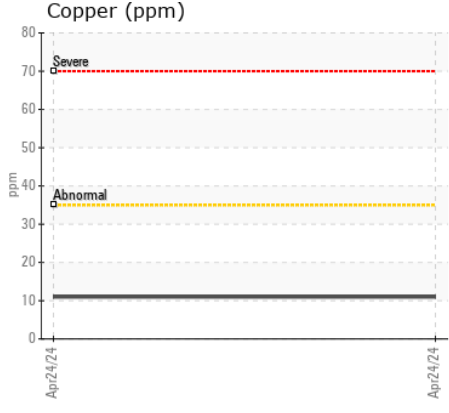
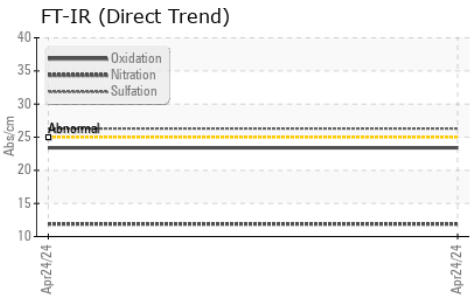
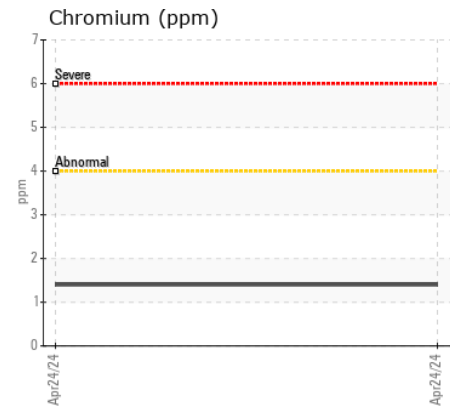
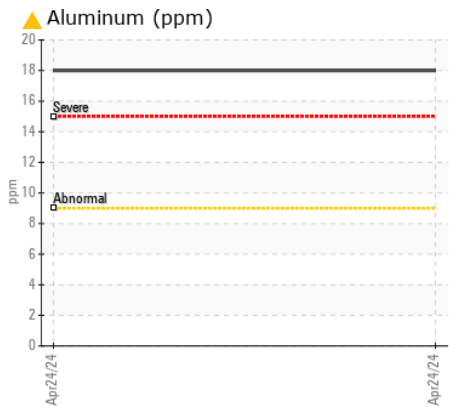
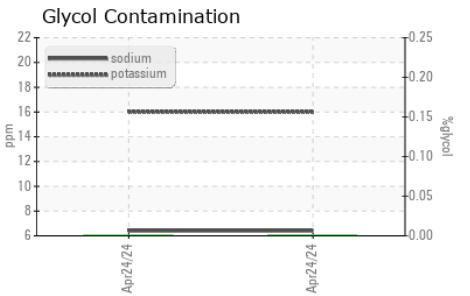
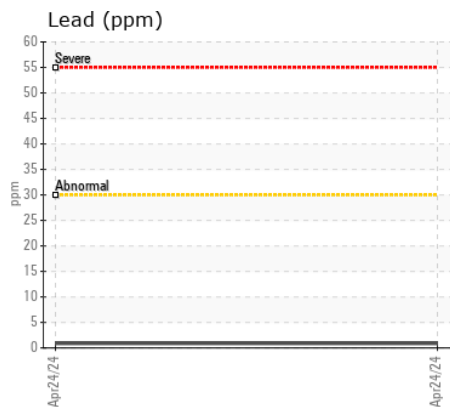
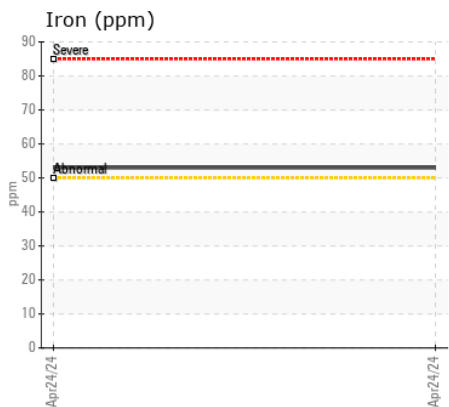
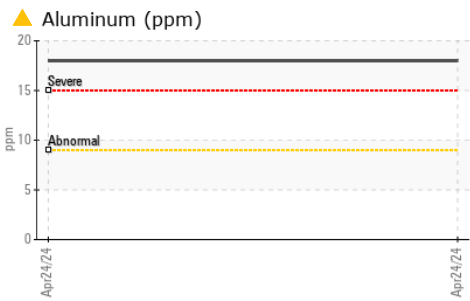
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	14	---	---
Potassium	ppm	ASTM D5185(m)	>20	16	---	---
Water		WC Method	>0.1	NEG	---	---
Glycol	%	ASTM D7922*		0.0	---	---
Soot %	%	ASTM D7844*		0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	11.9	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	26.3	---	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---	---

FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185(m)		6	---	---
Boron	ppm	ASTM D5185(m)	50	11	---	---
Barium	ppm	ASTM D5185(m)	5	2	---	---
Molybdenum	ppm	ASTM D5185(m)	50	59	---	---
Manganese	ppm	ASTM D5185(m)	0	8	---	---
Magnesium	ppm	ASTM D5185(m)	560	726	---	---
Calcium	ppm	ASTM D5185(m)	1510	1456	---	---
Phosphorus	ppm	ASTM D5185(m)	780	769	---	---
Zinc	ppm	ASTM D5185(m)	870	939	---	---
Sulfur	ppm	ASTM D5185(m)	2040	1957	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	23.4	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	14.5	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0096817
Lab Number : 02634859
Unique Number : 5776012
Test Package : MOB 1 (Additional Tests: Glycol, PQ)

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 Coquitlam, BC
 CA V3K 6B5
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*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.*