

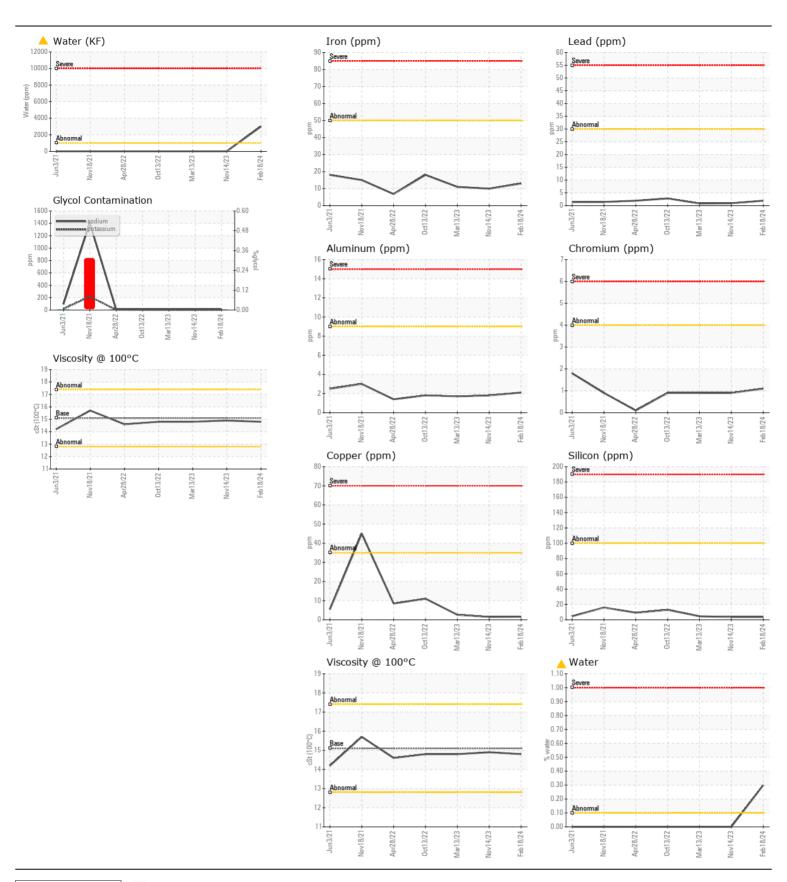
Machine Id
8421
Component
Natural Gas Engine

PETRO CANADA DURON GEO	LD 15W40 (LT	R)				
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check for the source of water entry. 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.	Sample Number		Client Info		GFL0102601	GFL0097621	GFL0072851
	Sample Date		Client Info		18 Feb 2024	14 Nov 2023	13 Mar 2023
	Machine Age	hrs	Client Info		13035	12462	11395
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185(m)	>50	13	10	11
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)	>4	1	<1	<1
	Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
	Titanium	ppm	ASTM D5185(m)		0	0	<1
	Silver	ppm	ASTM D5185(m)	>3	0	<1	0
	Aluminum	ppm	ASTM D5185(m)	>9	2	2	2
	Lead	ppm	ASTM D5185(m)	>30	2	<1	<1
	Copper	ppm	ASTM D5185(m)	>35	2	2	3
	Tin	ppm	ASTM D5185(m)	>4	<1	<1	<1
	Vanadium	ppm	ASTM D5185(m)		0	0	0
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>+100	4	4	4
There is a moderate concentration of water present in the oil. Test for glycol is negative.	Potassium	ppm	ASTM D5185(m)	>20	2	0	<1
	Water	%	ASTM D6304*	>0.1	△ 0.299		
	ppm Water	ppm	ASTM D6304*	>1000	<u> </u>		
	Glycol	%	ASTM D7922*		0.0		
	Soot %	%	ASTM D7844*		0	0	0
	Nitration	Abs/cm	ASTM D7624*	>20	12.8	12.2	11.8
	Sulfation	Abs/.1mm	ASTM D7415*	>30	22.6	25.3	22.5
	Emulsified Water	scalar	Visual*	>0.1	.2 %	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		10	10	10
The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185(m)	50	11	8	11
	Barium	ppm	ASTM D5185(m)	5	0	<1	0
	Molybdenum	ppm	ASTM D5185(m)	50	54	56	53
	Manganese	ppm	ASTM D5185(m)	0	<1	<1	1
	Magnesium	ppm	ASTM D5185(m)	560	578	568	535
	Calcium	ppm	ASTM D5185(m)	1510	1682	1717	1719
	Phosphorus	ppm	ASTM D5185(m)	780	728	676	707
	Zinc	ppm	ASTM D5185(m)	870	921	941	906
	Sulfur	ppm	ASTM D5185(m)	2040	2142	2084	2072
	Oxidation	Abs/.1mm	ASTM D7414*	>25	18.9	20.5	18.6

14.9

14.8

14.8





CALA ISO 17025:2017 Accredited

Laboratory Sample No.

: GFL0102601 Lab Number : 02617611

Unique Number : 5734721

Tested Diagnosed

Received

: 23 Feb 2024

: 27 Feb 2024

: 27 Feb 2024 - Kevin Marson

Test Package : MOB 1 (Additional Tests: Glycol, KF) 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.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW 8409 -15th Street NW

Edmonton, AB CA T6P 0B8 Contact: Tim Greig tgreig@gflenv.com T: (780)231-0521