

Machine Id 4501 Component Front Natural Gas Engine Fluid PETRO CANADA DURON GEO LD 15W40 (42 LTR)

RECOMMENDATION

Check for low coolant level. 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.

WEAR

All component wear rates are normal.

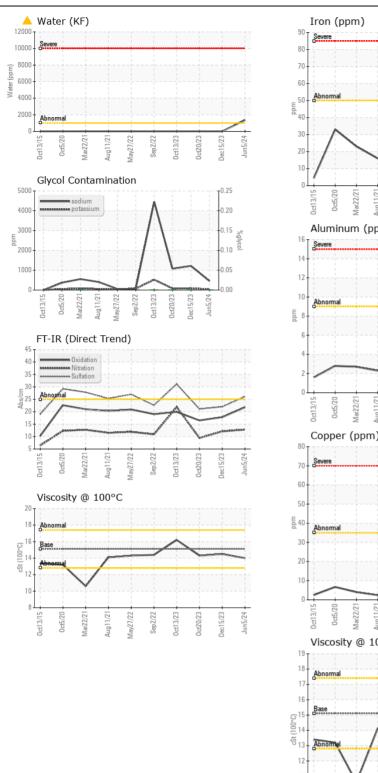
CONTAMINATION

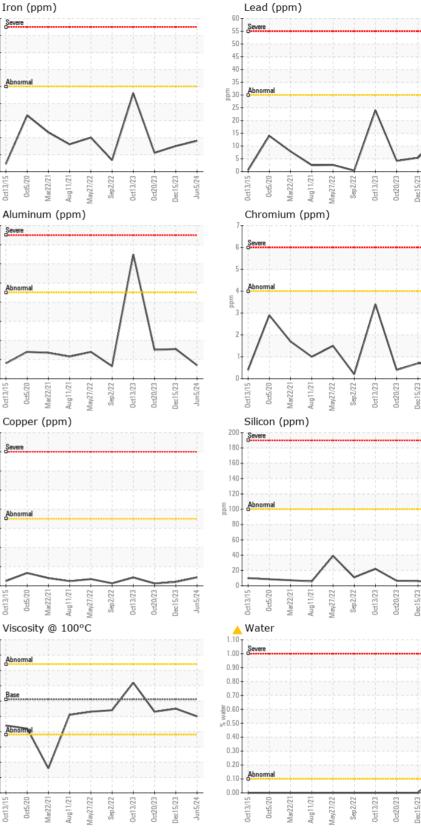
Water treatment chemicals present, indicating slow coolant leak. There is a moderate concentration of water present in the oil. Test for glycol is negative.

	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0118925	GFL0094383	GFL0094396
	Sample Date		Client Info		05 Jun 2024	15 Dec 2023	20 Oct 2023
	Machine Age	hrs	Client Info		21308	20364	17366
	Oil Age	hrs	Client Info		21308	20364	17366
	Filter Age	hrs	Client Info		21308	20364	17366
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				ABNORMAL	ATTENTION	ATTENTION
	Iran			. 50	10	15	4.4
	Iron	ppm	ASTM D5185(m)	>50 >4	18	15	11
	Chromium Nickel	ppm	ASTM D5185(m)		<1 0	<1 <1	<1 0
	Titanium	ppm	ASTM D5185(m)	>2	0	0	0
	Silver	ppm	ASTM D5185(m)	. 0	0	0 <1	<1
	Aluminum	ppm	ASTM D5185(m)	>3	1	3	3
	Lead	ppm	ASTM D5185(m) ASTM D5185(m)	>9 >30	13	5	4
		ppm	ASTM D5185(m)	>30	4	2	4
	Copper Tin	ppm	ASTM D5185(m)	>35	4	0	0
	Vanadium	ppm	ASTM D5185(m)	>4	0	0	0
	White Metal	ppm scalar	Visual*	NONE	NONE		NONE
	Yellow Metal	scalar	Visual*	NONE	NONE		NONE
		Scalai	visual				NONL
	Silicon	ppm	ASTM D5185(m)	>+100	4	6	6
	Potassium	ppm	ASTM D5185(m)	>20	32	89	80
	Water	%	ASTM D6304*	>0.1	A 0.135		
	ppm Water	ppm	ASTM D6304*	>1000	A 1357		
	Glycol	%	ASTM D7922*		0.0	0.0	0.0
	Soot %	%	ASTM D7844*		0	0	0
	Nitration	Abs/cm	ASTM D7624*	>20	12.8	12.1	9.4
	Sulfation	Abs/.1mm	ASTM D7415*	>30	26.1	22.0	21.1
	Silt	scalar	Visual*	NONE	NONE		NONE
	Debris	scalar	Visual*	NONE	NONE		VLITE
	Sand/Dirt	scalar	Visual*	NONE	NONE		NONE
	Appearance	scalar	Visual*	NORML	NORML		NORML
	Odor	scalar	Visual*	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	Visual*	>0.1	.2%	NEG	NEG
	Sodium	nom	ASTM D5185(m)		453	1214	1075
	Boron	ppm	ASTM D5185(m)	50	8	16	37
	Barium	ppm ppm	ASTM D5185(m)	5	0	<1	<1
	Molybdenum	ppm	ASTM D5185(m)	50	56	63	60
	Manganese		ASTM D5185(m)	0		0	0
	Magnesium	ppm ppm	ASTM D5185(m)		560	524	535
	Calcium	ppm	ASTM D5185(m)	1510	1525	1494	1458
	Phosphorus		ASTM D5185(m)	780	628	675	727
	Zinc	ppm ppm	ASTM D5185(m)	870	887	873	851
	Sulfur	ppm	ASTM D5185(m)	2040	2080	2121	2045
	Oxidation	Abs/.1mm	ASTM D3103(III) ASTM D7414*	>25	2000	17.8	16.5
	Visc @ 100°C	cSt	ASTM D7414 ASTM D7279(m)	15.1	14.0	14.5	14.3
		001	A01101213(III)	13.1	14.0	14.0	14.0

FLUID CONDITION

The condition of the oil is acceptable for the time in service (see recommendation). The oil is no longer serviceable due to the presence of contaminants.





Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. : GFL0118925 Received : 06 Jun 2024 Lab Number : 02640208 Tested ISO 17025:2017 : 10 Jun 2024 Accredited Unique Number : 5789370 Diagnosed : 10 Jun 2024 - Kevin Marson Laboratory Test Package : MOB 1 (Additional Tests: Glycol, KF, Visual) 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.

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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:

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Submitted By: Kim Thompson Page 2 of 2

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