

Machine Id **151002** Component **Diesel Engine** Fluid **PETRO CANADA DURON SHP 15W40 (--- GAL)**

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

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Metal levels are typical for a new component breaking in.

CONTAMINATION

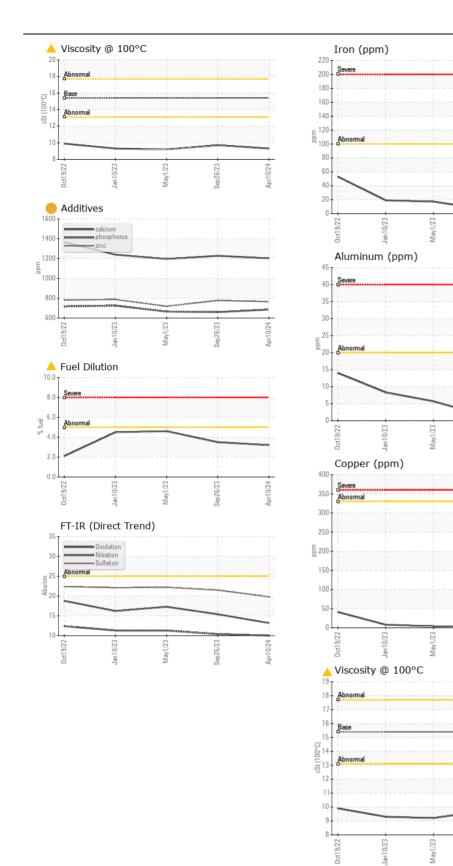
Light fuel dilution occurring.

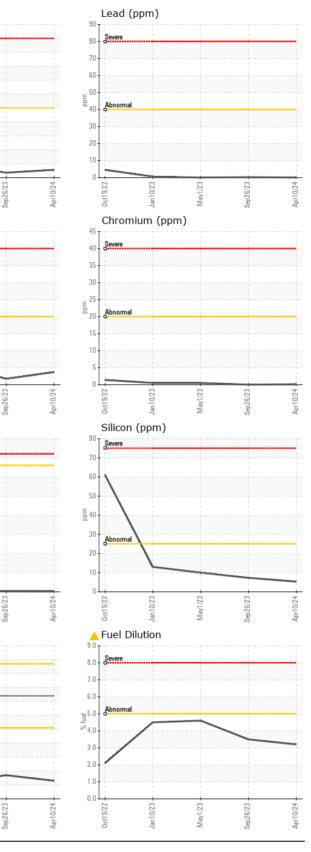
FLUID CONDITION

Fuel is present in the oil and is lowering the viscosity. The condition of the oil is acceptable for the time in service.

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	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0089797	GFL0027441	GFL0027438
	Sample Date		Client Info		10 Apr 2024	26 Sep 2023	01 May 2023
	Machine Age	kms	Client Info		61425	44211	27512
	Oil Age	kms	Client Info		0	0	0
	Filter Age	kms	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ATTENTION	ABNORMAL
	Iron	ppm	ASTM D5185(m)	>100	11	7	17
	Chromium	ppm	ASTM D5185(m)	>20	<1	0	<1
	Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
	Titanium	ppm	ASTM D5185(m)		<1	0	<1
	Silver	ppm	ASTM D5185(m)	>3	0	<1	0
	Aluminum	ppm	ASTM D5185(m)	>20	4	2	6
	Lead	ppm	ASTM D5185(m)	>40	0	<1	0
	Copper	ppm	ASTM D5185(m)	>330	1	1	4
	Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
	Vanadium	ppm	ASTM D5185(m)		0	0	0
	Ciliaan				 F	-7	10
	Silicon	ppm	ASTM D5185(m)	>25	5	7	10
	Potassium Fuel	ppm %	ASTM D5185(m) ASTM D7593*	>20 >5	<1 ▲ 3.2	I ▲ 3.5	<1
	Water	70	WC Method	>0.2	NEG	NEG	A.6
	Glycol		WC Method	20.2	NEG	NEG	NEG
	Soot %	%	ASTM D7844*	>3	0	0	0
	Nitration	Abs/cm	ASTM D7624*	>20	10.0	10.4	11.3
	Sulfation	Abs/.1mm	ASTM D7415*	>30	19.8	21.5	22.2
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
	Sodium	ppm	ASTM D5185(m)		2	3	3
	Boron	ppm	ASTM D5185(m)	0	88	4 1	67
	Barium	ppm	ASTM D5185(m)	0	0	<1	0
	Molybdenum	ppm	ASTM D5185(m)	60	73	71	69
	Manganese	ppm	ASTM D5185(m)	0	0	0	<1
	Magnesium	ppm	ASTM D5185(m)	1010	548	540	483
	Calcium	ppm	ASTM D5185(m)	1070	1202	1228	1195
	Phosphorus	ppm	ASTM D5185(m)	1150	685	659	665
	Zinc	ppm	ASTM D5185(m)	1270	765	777	718
	Sulfur	ppm	ASTM D5185(m)	2060	2262	2397	2280
	Oxidation	Abs/.1mm	ASTM D7414*	>25	13.2	15.4	17.3
	Visc @ 100°C	cSt	ASTM D7279(m)	15.4	9 .3	9.7	9 .2
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Contact/Location: service ? - GFL543 Page 1 of 2





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