

WEAR NORMAL CONTAMINATION MARGINAL FLUID CONDITION ABNORMAL

Current

GFL0122297

History1

History2

GFL0107125 WC0875106

Machine Id **701030** Component **Diesel Engine** Fluid **PETRO CANADA DURON SHP 15W40 (19 LTR)**

Test

Sample Number

UOM

Method

Client Info

Limit/Abn

RECOMMENDATION

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

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All component wear rates are normal.

CONTAMINATION

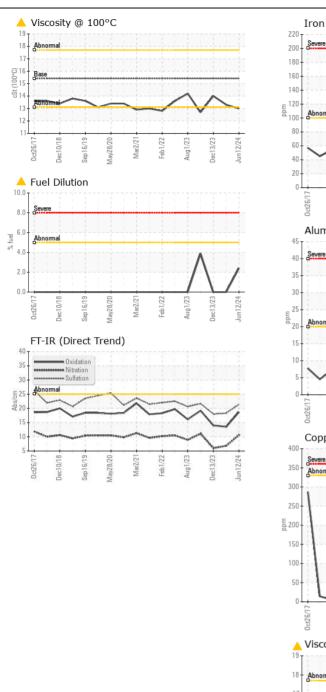
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Light fuel dilution occurring.

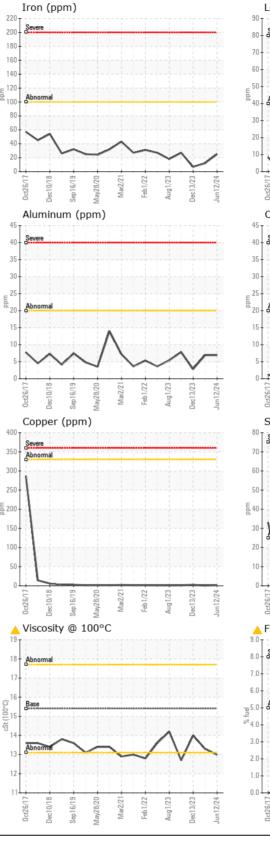
	Sample Number		Client Into		GFL0122297	GI LUTU/125	000075100
	Sample Date		Client Info		12 Jun 2024	17 Jan 2024	13 Dec 2023
	Machine Age	hrs	Client Info		11361	0	106415
	Oil Age	hrs	Client Info		600	0	106415
	Filter Age	hrs	Client Info		600	0	0
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				ABNORMAL	NORMAL	NORMAL
	Iron	ppm	ASTM D5185(m)	>100	25	12	7
	Chromium	ppm	ASTM D5185(m)	>20	<1	<1	0
	Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
	Titanium	ppm	ASTM D5185(m)		0	0	0
	Silver	ppm	ASTM D5185(m)	>3	0	0	<1
	Aluminum	ppm	ASTM D5185(m)	>20	7	7	3
	Lead	ppm	ASTM D5185(m)	>40	0	0	0
	Copper	ppm	ASTM D5185(m)	>330	2	<1	3
	Tin	ppm	ASTM D5185(m)	>15	0	0	0
	Vanadium	ppm	ASTM D5185(m)		0	0	0
	Silicon	ppm	ASTM D5185(m)	>25	4	5	4
	Potassium	ppm	ASTM D5185(m)	>20	10	8	2
	Fuel	%	ASTM D7593*	>5	2 .4	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	ASTM D7844*	>3	0.5	0.1	0.1
	Nitration	Abs/cm	ASTM D7624*	>20	10.6	6.8	6.0
	Sulfation	Abs/.1mm	ASTM D7415*	>30	21.4	18.3	18.0
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
	Sodium	ppm	ASTM D5185(m)		7	4	4
	Boron	ppm	ASTM D5185(m)	0	6	15	20
	Barium	ppm	ASTM D5185(m)	0	0	0	<1
	Molybdenum	ppm	ASTM D5185(m)	60	60	57	59
	Manganese	ppm	ASTM D5185(m)	0	<1	0	0
	Magnesium	ppm	ASTM D5185(m)	1010	946	908	918
	Calcium	ppm	ASTM D5185(m)	1070	1036	1023	1014
	Phosphorus	ppm	ASTM D5185(m)	1150	946	991	962
	Zinc	ppm	ASTM D5185(m)	1270	1166	1145	1170
	Sulfur	ppm	ASTM D5185(m)	2060	2366	2688	2571
	Oxidation	Abs/.1mm	ASTM D7414*	>25	18.7	13.5	14.0
	Visc @ 100°C	cSt	ASTM D7279(m)	15.4	1 3.0	13.3	14.0

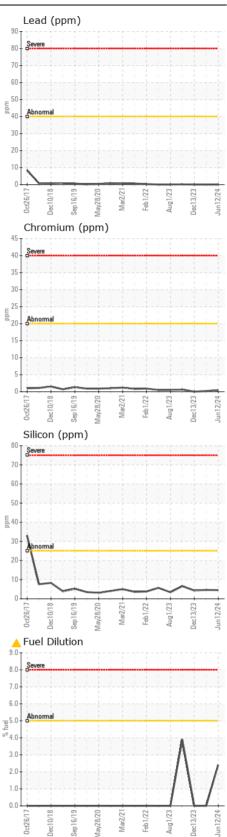
FLUID CONDITION

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

Submitted By: Scott Ewan







Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. Received : 14 Jun 2024 : GFL0122297 Lab Number : 02641921 Tested : 17 Jun 2024 ISO 17025:2017 Accredited : 17 Jun 2024 - Wes Davis Unique Number : 5799460 Diagnosed Laboratory Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel) 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.

GFL Environmental - 217 - Aurora 14131 BAYVIEW AVE, AURORA YARD AURORA, ON s CA L4G 0K6 Contact: Mike Havens MHavens@gflenv.com T: F: (905)713-2445

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