

WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION ABNORMAL

Machine Id **816003** Component **Diesel Engine** Fluid **PETRO CANADA DURON SHP 15W40 (20 LTR)**

DEC	OMME	ΓΙΛΝ
NEC		

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

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

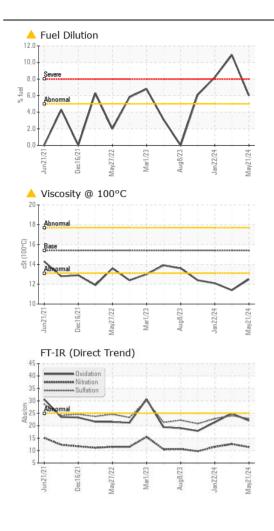
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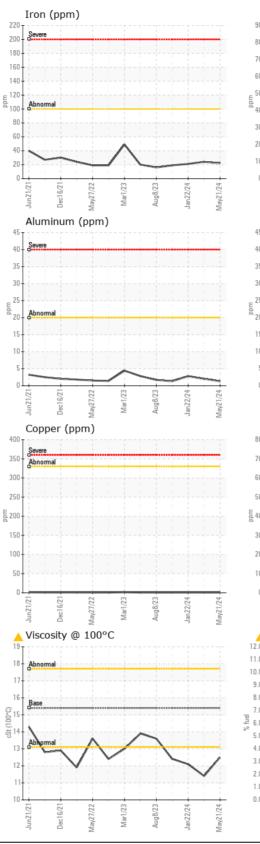
	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0116856	GFL0116840	GFL0097440
	Sample Date		Client Info		21 May 2024	12 Apr 2024	22 Jan 2024
	Machine Age	hrs	Client Info		0	0	0
	Oil Age	hrs	Client Info		500	500	500
	Filter Age	hrs	Client Info		500	500	500
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	SEVERE	SEVERE
	Iron	ppm	ASTM D5185(m)	>100	22	24	21
	Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
	Titanium	ppm	ASTM D5185(m)	27	0	0	0
	Silver	ppm	ASTM D5185(m)	>3	0	0	0
	Aluminum	ppm	ASTM D5185(m)	>20	1	2	3
	Lead	ppm	ASTM D5185(m)	>40	0	0	0
	Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
	Tin	ppm	ASTM D5185(m)	>15	0	0	0
	Vanadium	ppm	ASTM D5185(m)		0	0	0
	Silicon	ppm	ASTM D5185(m)	>25	3	3	5
	Potassium	ppm	ASTM D5185(m)	>20	<1	<1	6
	Fuel	%	ASTM D7593*	>5	6	1 0.9	▲ 8.2
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	ASTM D7844*	>3	0.5	0.6	0.5
	Nitration	Abs/cm	ASTM D7624*	>20	11.4	12.6	11.5
	Sulfation	Abs/.1mm	ASTM D7415*	>30	22.8	24.0	22.8
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
	Sodium	ppm	ASTM D5185(m)		2	3	3
	Boron	ppm	ASTM D5185(m)	0	3	2	2
	Barium	ppm	ASTM D5185(m)	0	0	0	0
	Molybdenum	ppm	ASTM D5185(m)	60	53	50	53
	Manganese	ppm	ASTM D5185(m)	0	<1	<1	0
	Magnesium	ppm	ASTM D5185(m)	1010	870	815	841
	Calcium	ppm	ASTM D5185(m)	1070	946	855	923
	Phosphorus	ppm	ASTM D5185(m)	1150	886	836	899
	Zinc	ppm	ASTM D5185(m)	1270	1071	987	1035
	Sulfur	ppm	ASTM D5185(m)	2060	2140	2012	2280
	Oxidation	Abs/.1mm	ASTM D7414*	>25	22.0	24.9	21.4
	Visc @ 100°C	cSt	ASTM D7279(m)	15.4	▲ 12.5	1 1.4	<mark>▲</mark> 12.1

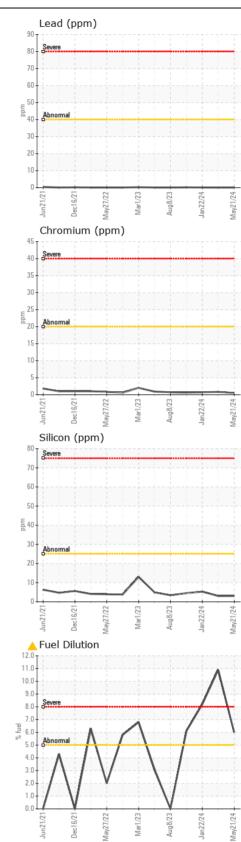
FLUID CONDITION

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

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Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 221 - Windsor CALA Sample No. 905 Tecumseh Road W : GFL0116856 Received : 23 May 2024 Lab Number : 24 May 2024 : 02637083 Tested ISO 17025:2017 Accredited : 24 May 2024 - Wes Davis Unique Number : 5786245 Diagnosed Laboratory Test Package : MOB 1 (Additional Tests: 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.

Windsor, ON CA N8W 4J5 Contact: Pamela-Jean Butler pamelajean.butler@gflenv.com T: (519)948-8126 F: Submitted By: Pamela-Jean Butler