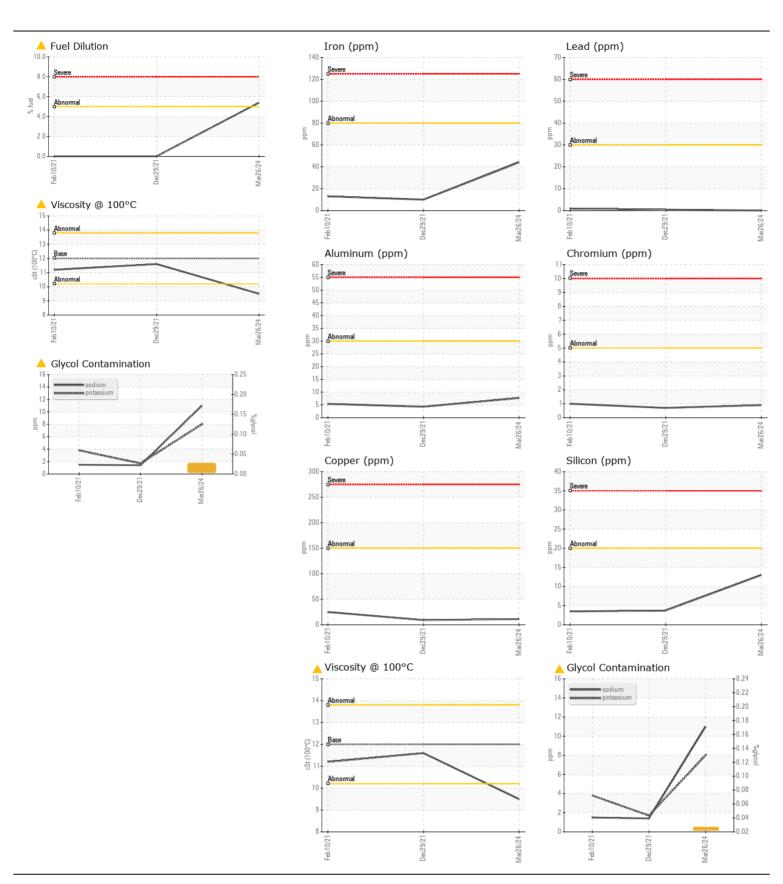
WEAR CONTAMINATION FLUID CONDITION

NORMAL ABNORMAL ABNORMAL

Machine Id **501113**

Component Diesel Engine

PETRO CANADA DURON SHP 10W30 (GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		GFL0115530	GFL0040296	GFL0016688
	Sample Date		Client Info		26 Mar 2024	29 Dec 2021	10 Feb 202
	Machine Age	kms	Client Info		1534316	306451	209998
	Oil Age	kms	Client Info		0	0	55668
	Filter Age	kms	Client Info		0	0	55668
	Oil Changed		Client Info		Changed	N/A	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185(m)	>80	44	10	13
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)	>5	<1	<1	1
	Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
	Titanium	ppm	ASTM D5185(m)		0	0	0
	Silver	ppm	ASTM D5185(m)	>3	0	0	<1
	Aluminum	ppm	ASTM D5185(m)	>30	8	4	5
	Lead	ppm	ASTM D5185(m)	>30	0	<1	<1
	Copper	ppm	ASTM D5185(m)	>150	11	9	25
	Tin	ppm	ASTM D5185(m)	>5	<1	1	2
	Vanadium	ppm	ASTM D5185(m)		0	0	0
CONTAMINATION Test for glycol is positive. There is a moderate amount of fuel present in the oil. There is a light concentration of glycol present in the oil. Tests confirm the presence of fuel in the oil.	Silicon	ppm	ASTM D5185(m)	>20	13	4	4
	Potassium	ppm	ASTM D5185(m)	>20	<u>^</u> 8	2	4
	Fuel	%	ASTM D7593*	>5	▲ 5.4	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	%	ASTM D7922*		△ 0.027	NEG	NEG
	Soot %	%	ASTM D7844*	>3	0.4	0	0.2
	Nitration	Abs/cm	ASTM D7624*	>20	9.1	6.0	7.4
	Sulfation	Abs/.1mm	ASTM D7415*	>30	21.8	19.5	19.1
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		11	1	2
Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185(m)	2	10	4	4
	Barium	ppm	ASTM D5185(m)	0	<1	0	0
	Molybdenum	ppm	ASTM D5185(m)	50	55	58	59
	Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
	Magnesium	ppm	ASTM D5185(m)	950	854	995	973
	Calcium	ppm	ASTM D5185(m)	1050	986	1033	1043
	Phosphorus	ppm	ASTM D5185(m)	995	893	1090	999
	Zinc	ppm	ASTM D5185(m)	1180	1061	1214	1252
	Sulfur	ppm	ASTM D5185(m)	2600	2937	2540	2583
	Oxidation	Abs/.1mm	ASTM D7414*		17.7	14.0	14.6
	Visc @ 100°C	cSt	ASTM D7279(m)	12.00	△ 9.5	11.6	11.2





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: GFL0115530 Lab Number : 02625116 Unique Number : 5750235

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 28 Mar 2024 **Tested** : 01 Apr 2024 : 01 Apr 2024 - Wes Davis Diagnosed

Test Package: MOB 1 (Additional Tests: FuelDilution, Glycol, 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.



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