WEAR CONTAMINATION **FLUID CONDITION**

NORMAL MARGINAL ATTENTION

History2

History1



GFL207 800021

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

Test

White Metal

Odor

UOM

Method

scalar Visual*

scalar

Visual*

	OM			

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition.

Sample Number		Client Info		GFL0118542	GFL0028557	GFL0102708
Sample Date		Client Info		27 May 2024	18 Mar 2024	04 Jan 2024
Machine Age	hrs	Client Info		18980	18574	17985
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	N/A
Filter Changed		Client Info		N/A	Changed	N/A
Sample Status				ATTENTION	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>75	35	34	29
Chromium	ppm	ASTM D5185(m)	>5	1	1	1
Miskel	nnm	ACTM DE10E/m)	. 1	^	-4	-1

Limit/Abn Current

WEAR

All component wear rates are normal.

Sample Status				ATTENTION	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>75	35	34	29
Chromium	ppm	ASTM D5185(m)	>5	1	1	1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>15	1	<1	2
Lead	ppm	ASTM D5185(m)	>25	0	0	0
Copper	ppm	ASTM D5185(m)	>100	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

NONE

VLITE

NORML

NORML

CONTAMINATION

Test for glycol is positive. There is a light concentration of glycol present in the oil.

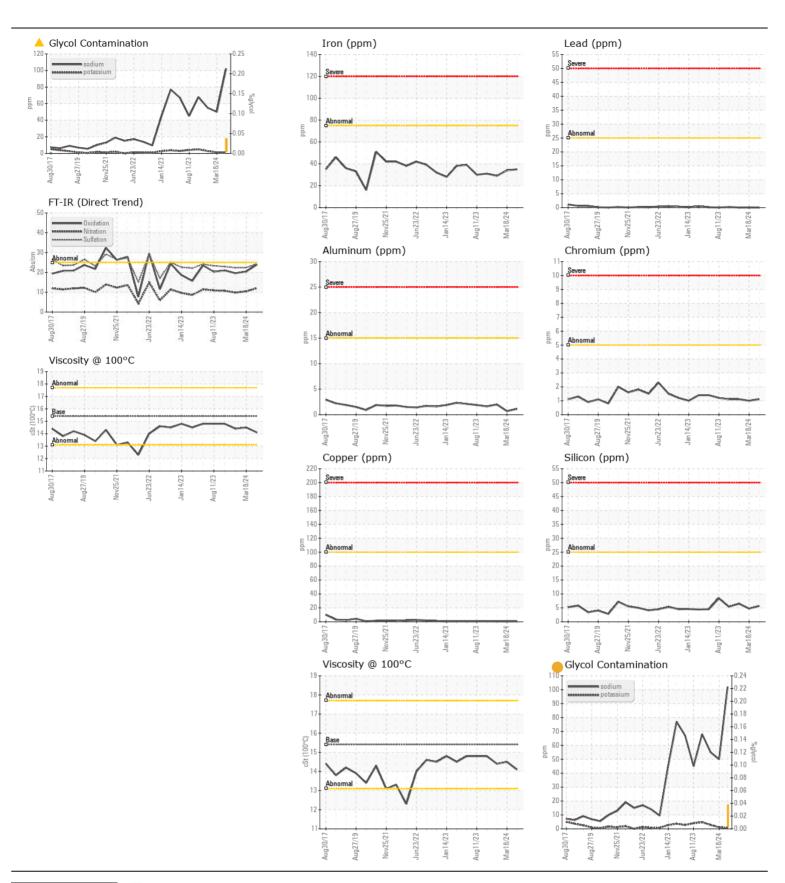
Yellow Metal	scalar	Visual*	NONE	VLITE		
					_	
Silicon	ppm	ASTM D5185(m)	>25	6	5	6
Potassium	ppm	ASTM D5185(m)	>20	<1	1	3
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		△ 0.038	NEG	NEG
Soot %	%	ASTM D7844*	>6	0.6	0.6	0.6
Nitration	Abs/cm	ASTM D7624*	>20	12.1	10.4	9.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.3	22.4	22.3
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Annogrange	acalar	\/iool*	NODM	NODMI		

FLUID CONDITION

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

				-		
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		102	50	55
Boron	ppm	ASTM D5185(m)	0	1	1	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	71	67	62
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	945	1005	994
Calcium	ppm	ASTM D5185(m)	1070	1007	1088	1083
Phosphorus	ppm	ASTM D5185(m)	1150	980	1001	1032
Zinc	ppm	ASTM D5185(m)	1270	1151	1233	1222
Sulfur	ppm	ASTM D5185(m)	2060	2241	2361	2613
Oxidation	Abs/.1mm	ASTM D7414*	>25	23.9	20.4	19.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.1	14.5	14.4

NORML





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

: GFL0118542 Lab Number : 02638363 Unique Number : 5787525 Test Package : MOB 1 (Additional Tests: Glycol, Visual)

Received **Tested**

: 29 May 2024 : 29 May 2024 Diagnosed

: 29 May 2024 - Wes Davis

GFL Environmental - 207 - Pickering SW 1034 TOY AVENUE, PICKERING YARD PICKERING, ON CA L1W 3P1 Contact: Ian Patton ipatton@gflenv.com

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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