WEAR CONTAMINATION FLUID CONDITION

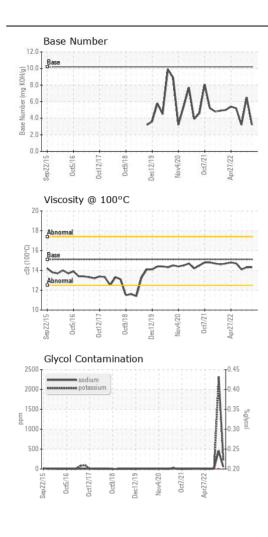
NORMAL ABNORMAL ABNORMAL

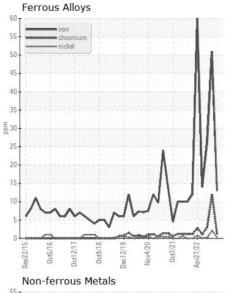
Area (YA163198)

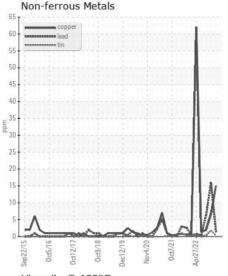
10369C

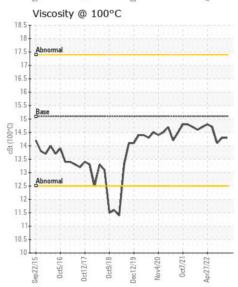
Component Natural Gas Engine

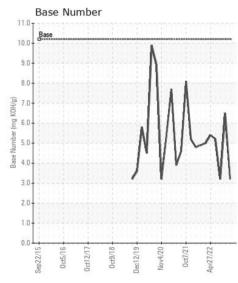
PETRO CANADA DURON GEO LD 15W40 (30 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEOOMIMETOATION	Sample Number	OOW	Client Info	Limitorion	GFL0082483	-	GFL0050806
We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been	Sample Date		Client Info		14 Nov 2023	14 Jun 2023	30 Nov 2022
	Machine Age	hrs	Client Info		79446	0	7127
noted. We recommend an early resample to monitor this condition.	Oil Age	hrs	Client Info		79446	0	1177
	Filter Age	hrs	Client Info		79446	0	1177
	Oil Changed	1110	Client Info		Changed	N/A	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status		Oliciti IIIIo		ABNORMAL	SEVERE	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>50	13	<u></u> 51	26
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>4	1	<u> </u>	3
	Nickel	ppm	ASTM D5185m		<1	2	<1
	Titanium	ppm	ASTM D5185m	_	0	- <1	0
	Silver	ppm	ASTM D5185m	<b>\3</b>	0	0	0
	Aluminum	ppm	ASTM D5185m		2	8	3
	Lead	ppm	ASTM D5185m		2	16	6
	Copper	ppm	ASTM D5185m		15	6	2
	Tin	ppm	ASTM D5185m		<1 <1	2	<1
	Vanadium		ASTM D5185m	>4	0	<1	0
	White Metal	ppm	*Visual	NONE	NONE	NONE	NONE
		scalar			NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>+100	2	16	4
	Potassium	ppm	ASTM D5185m		<b>233</b>	<u>^</u> 2309	1
Sodium and/or potassium levels remain high.	Water	le le · · ·	WC Method		NEG	NEG	NEG
	Glycol	%	*ASTM D2982			0.20	
	Soot %	%	*ASTM D7844		0	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	11.8	14.5	13.1
	Sulfation	Abs/.1mm	*ASTM D7415		23.8	24.9	27.3
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<u> </u>	<u></u> 459	12
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m	50	<1	11	4
oil.	Barium	ppm	ASTM D5185m	5	<1	0	0
<b></b>	Molybdenum	ppm	ASTM D5185m	50	55	72	55
	Manganese	ppm	ASTM D5185m	0	<1	2	<1
	Magnesium	ppm	ASTM D5185m	560	519	550	546
	Calcium	ppm	ASTM D5185m	1510	1481	1695	1692
	Phosphorus	ppm	ASTM D5185m	780	651	737	712
	Zinc	ppm	ASTM D5185m	870	912	1055	933
	Sulfur	ppm	ASTM D5185m	2040	2310	3153	2901
	Oxidation	Abs/.1mm	*ASTM D7414	>25	19.1	20.4	21.8
	Base Number (BN)	mg KOH/g	ASTM D2896	10.2	3.2	6.5	3.2
	Visc @ 100°C	cSt	ASTM D445	15.1	14.3	14.3	14.1













Certificate L2367

Laboratory Sample No.

Lab Number : 06083461 Unique Number: 10870906 Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 08 Feb 2024 : GFL0082483

: 12 Feb 2024 **Tested** : 12 Feb 2024 - Jonathan Hester Diagnosed

GFL Environmental - 007 - Brunswick

2809 Galloway Road Bolivia, NC

US 28422 Contact: DONALD CRAVEN

dcraven@gflenv.com T:

F: (910)253-4179

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)