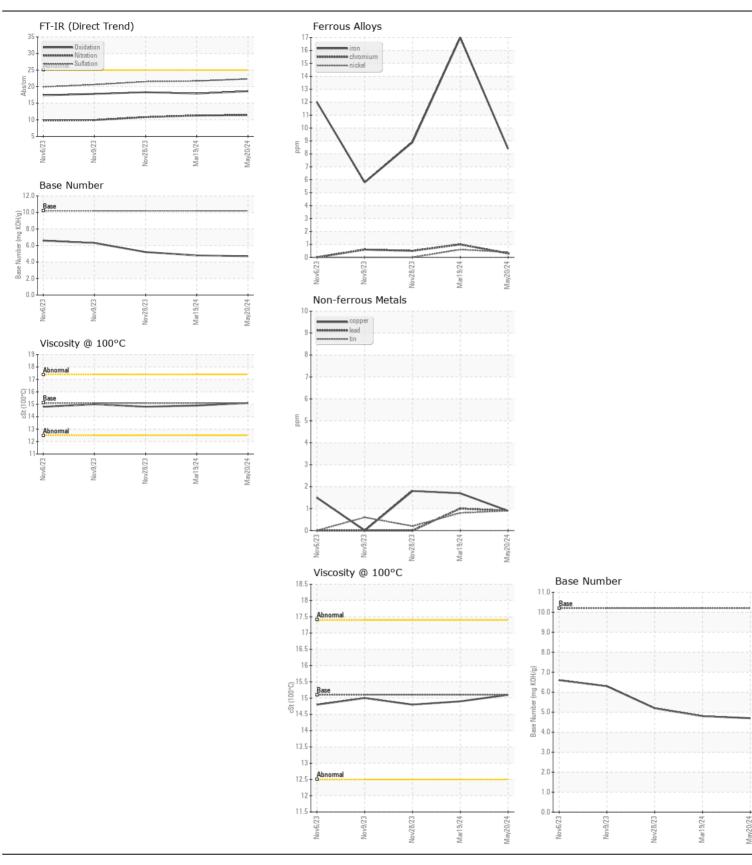
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id 433018

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (G	·····						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0121921	GFL0106809	GFL009204
	Sample Date		Client Info		20 May 2024	19 Mar 2024	28 Nov 202
	Machine Age	hrs	Client Info		2372	31824	2346
	Oil Age	hrs	Client Info		600	2346	600
	Filter Age	hrs	Client Info		600	2346	600
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>50	8	17	9
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>4	<1	1	<1
	Nickel	ppm	ASTM D5185m	>2	<1	<1	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>9	7	8	11
	Lead	ppm	ASTM D5185m	>30	<1	1	0
	Copper	ppm	ASTM D5185m	>35	<1	2	2
	Tin	ppm	ASTM D5185m	>4	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>+100	6	7	5
	Potassium	ppm	ASTM D5185m	>20	22	29	38
There is no indication of any contamination in the oil.	Water		WC Method	>0.1	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0	0	0
	Nitration	Abs/cm	*ASTM D7624	>20	11.4	11.3	10.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	21.7	21.5
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		8	6	5
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m	50	13	8	7
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	50	53	58	38
	Manganese	ppm	ASTM D5185m	0	<1	<1	1
	Magnesium	ppm	ASTM D5185m	560	565	538	433
	Calcium	ppm	ASTM D5185m	1510	1661	1637	1272
	Phosphorus	ppm	ASTM D5185m	780	706	714	583
	Zinc	ppm	ASTM D5185m	870	937	971	741
	Sulfur	ppm	ASTM D5185m	2040	2729	2310	1767
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.6	17.9	18.3
	Base Number (BN)	mg KOH/g	ASTM D2896	10.2	4.7	4.8	5.2
	Visc @ 100°C	cSt	ASTM D445	15.1	15.1	14.9	14.8







Certificate L2367

Report Id: GFL856 [WUSCAR] 06193703 (Generated: 05/30/2024 16:04:18) Rev: 1

Laboratory Sample No.

: GFL0121921 Lab Number : 06193703 Unique Number : 11050455 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 29 May 2024

Tested : 30 May 2024 Diagnosed : 30 May 2024 - Wes Davis

GFL Environmental - 856 - Houston South

8515 Highway 6 South

Houston, TX US 77083

Contact: Apolinar Zacarias pzacariascano@gflenv.com

T:

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

* - 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)

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