WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

NORMAL

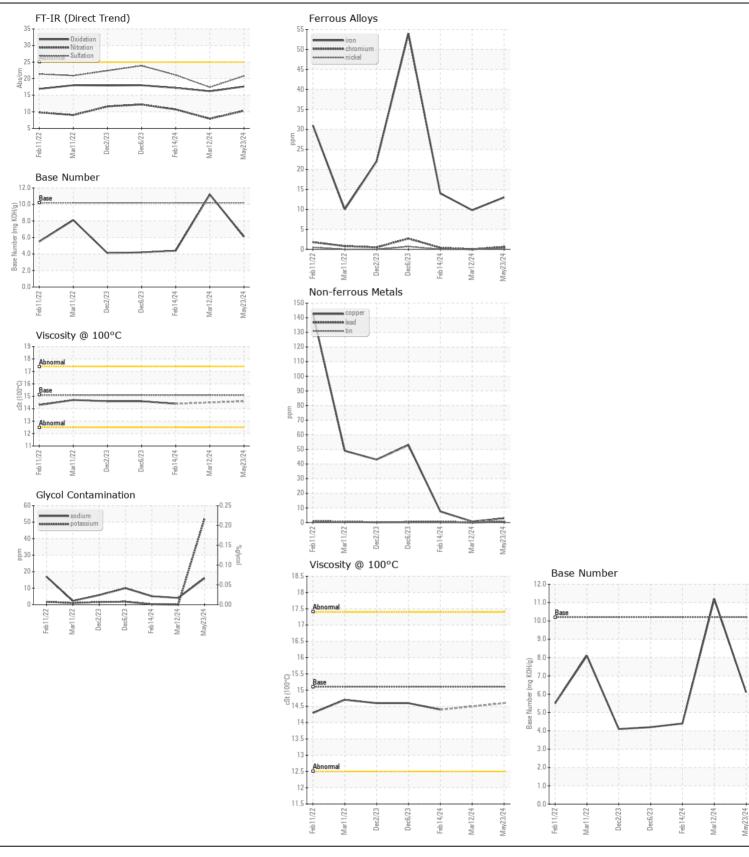
Machine Id

945019-260276

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (--- GAL)

DECOMMENDATION	Toot	LIONA	Mothad	limit/Alex-	Cummarat	Hiotom:4	Lliotor:0
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1 GFL0106806	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0121862		GFL009206
	Sample Date	le co	Client Info		23 May 2024		14 Feb 202
	Machine Age	hrs	Client Info		34803	34229	32182
	Oil Age	hrs	Client Info		600	600	600
	Filter Age	hrs	Client Info		600	600	600
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>50	13	10	14
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>4	<1	0	<1
	Nickel	ppm	ASTM D5185m	>2	<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		2	0	1
	Lead	ppm	ASTM D5185m		- <1	0	<1
	Copper	ppm	ASTM D5185m		3	<1	8
	Tin	ppm	ASTM D5185m		<1	0	0
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	·····						
CONTAMINATION	Silicon	ppm	ASTM D5185m	>+100	9	5	4
Sodium and/or potassium levels are high. Test for glycol is negative.	Potassium	ppm	ASTM D5185m	>20	△ 52	0	<1
	Water		WC Method	>0.1	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.1	0.1	0
	Nitration	Abs/cm	*ASTM D7624	>20	10.3	7.9	10.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	17.4	21.1
	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	0.2%	NEG
THUR CONDITION	O - all		AOTA DE LOE		40	4	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	F0	16	4	5
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		13	41	14
	Barium	ppm	ASTM D5185m		<1	0	0
	Monganasa	ppm	ASTM D5185m		60	47	46
	Manganese	ppm	ASTM D5185m		<1 575	0	0
	Magnesium	ppm	ASTM D5185m		575 1502	567	560
	Calcium	ppm	ASTM D5185m		1593	1643	1566
	Phosphorus	ppm	ASTM D5185m		838	853	698
	Zinc	ppm	ASTM D5185m		945	1020	941
	Sulfur	ppm	ASTM D5185m		2663	3096	2362
	Oxidation	Abs/.1mm	*ASTM D7414		17.6	16.2	17.2
	Base Number (BN) Visc @ 100°C		ASTM D2896 ASTM D445		6.1 14.6	11.2 	4.4 14.4
		cSt					







Certificate L2367

Laboratory

Sample No.

: GFL0121862 Lab Number : 06196296 Unique Number: 11058419

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

Diagnosed Test Package: FLEET (Additional Tests: Glycol)

: 31 May 2024 : 04 Jun 2024

: 04 Jun 2024 - Jonathan Hester

GFL Environmental - 856 - Houston South

8515 Highway 6 South Houston, TX US 77083

Contact: Apolinar Zacarias pzacariascano@gflenv.com

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)

T: F: