**WEAR CONTAMINATION FLUID CONDITION** 

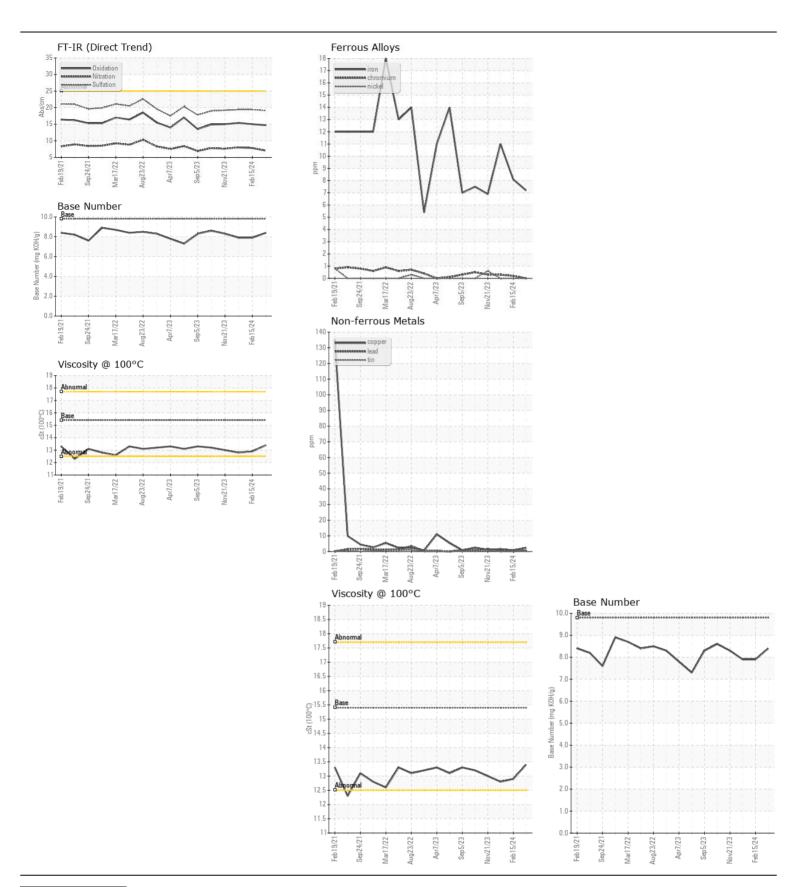
**NORMAL NORMAL NORMAL** 

Machine Id

929014-1268

Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (48 QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0110324	GFL0110275	GFL0102820
	Sample Date		Client Info		08 Apr 2024	15 Feb 2024	07 Dec 2023
	Machine Age	hrs	Client Info		14416	14058	13454
	Oil Age	hrs	Client Info		580	604	582
	Filter Age	hrs	Client Info		580	604	582
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>100	7	8	11
	Chromium	ppm	ASTM D5185m	>20	0	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	2	1	1
	Lead	ppm	ASTM D5185m		- <1	<1	<1
	Copper	ppm	ASTM D5185m	>330	2	<1	2
	Tin	ppm	ASTM D5185m	>15	<1	0	0
	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	>25	4	3	3
	Potassium	ppm	ASTM D5185m		<1	0	1
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	<b>\3</b>	0.3	0.4	0.3
	Nitration	Abs/cm	*ASTM D7624		7.0	7.8	8.0
	Sulfation	Abs/.1mm	*ASTM D7415		19.1	19.4	19.4
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
LUID CONDITION	Codium		ACTM DE10Em		· · · · · · · · · · · · · · · · · · ·	0	· · · · · · · · · · · · · · · · · · ·
LUID CONDITION	Sodium Boron	ppm	ASTM D5185m ASTM D5185m	0	3 11	3 6	3
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm ppm	ASTM D5185m		62	55	62
	Manganese		ASTM D5185m		<1	<1	0
	Magnesium	ppm	ASTM D5185m		988	823	902
	Calcium	ppm	ASTM D5185m		1118	969	1034
	Phosphorus	ppm	ASTM D5185m		1106	958	1007
	Zinc	ppm	ASTM D5185m		1304	1137	1218
	Sulfur	ppm	ASTM D5185m		3697	2674	3145
			TO THE DOTOUTH	2000	JUJ1	2074	0140
						15.0	15.4
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414	>25	14.7 8.4	15.0 7.9	15.4 7.9







Certificate L2367

Laboratory

Sample No.

: GFL0110324 Lab Number : 06146508 Unique Number: 10976586 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 11 Apr 2024 **Tested** : 12 Apr 2024

Diagnosed : 12 Apr 2024 - Wes Davis

GFL Environmental - 622 - Traverse City Hauling

160 Hughes Dr Traverse City, MI US 49686

Contact: GARY BREWER

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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F: