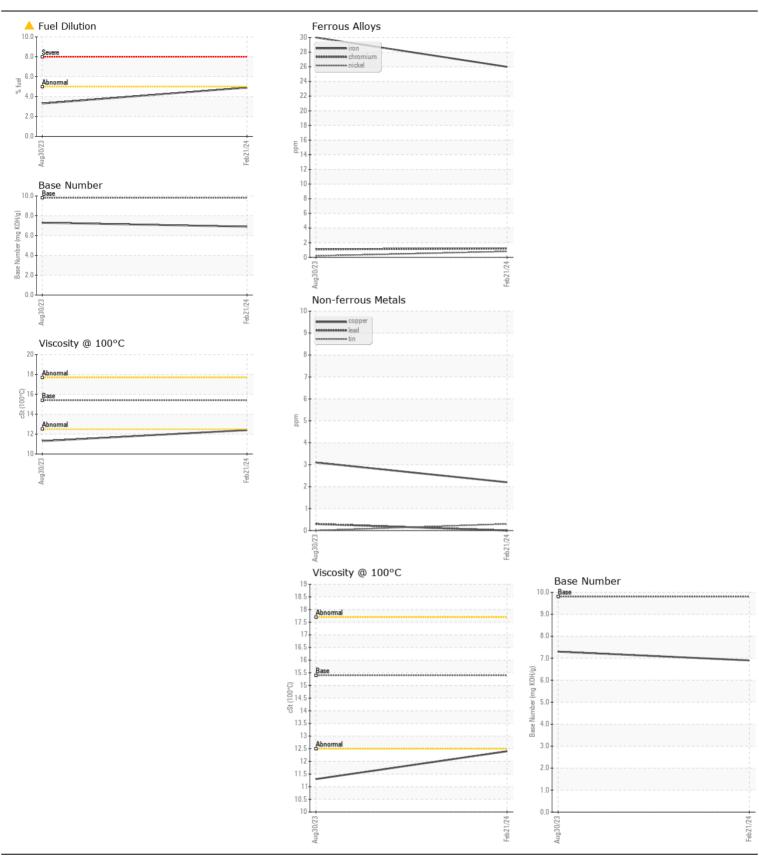
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL MARGINAL NORMAL

Machine Id **219012**

Component Diesel Engine							
PETRO CANADA DURON SHP 15W40 (3 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0109182	_	
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.	Sample Date		Client Info		21 Feb 2024	30 Aug 2023	
	Machine Age	hrs	Client Info		1420	1170	
	Oil Age	hrs	Client Info		700	700	
	Filter Age	hrs	Client Info		700	700	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				MARGINAL	ABNORMAL	
WEAD	lvon		ACTM DE10Em	. 100	00	20	
WEAR	Iron	ppm	ASTM D5185m		26	30	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		1	1	
	Nickel	ppm	ASTM D5185m		<1	<1	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver Aluminum	ppm	ASTM D5185m ASTM D5185m		0 7	0 8	
		ppm	ASTM D5185m		0		
	Lead Copper	ppm	ASTM D5185m		2	<1 3	
	Tin	ppm	ASTM D5185m			0	
	Vanadium	ppm	ASTM D5185m	>10	<1 <1	0	
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION Light fuel dilution occurring. No other contaminants were detected in the oil.	Silicon	ppm	ASTM D5185m	>25	7	13	
	Potassium	ppm	ASTM D5185m		2	3	
	Fuel	%	ASTM D3524	>5	4.9	△ 3.3	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.3	0.4	
	Nitration	Abs/cm	*ASTM D7624	>20	10.0	10.4	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	21.4	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	3	
I LOID CONDITION	Boron	ppm	ASTM D5185m	0	4	28	
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	
	Molybdenum	ppm	ASTM D5185m		54	10	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		869	758	
	Calcium	ppm	ASTM D5185m		953	1277	
	Phosphorus	ppm	ASTM D5185m		979	1065	
	Zinc	ppm	ASTM D5185m		1181	1239	
	Sulfur	ppm	ASTM D5185m		2877	4013	
	Oxidation	Abs/.1mm	*ASTM D7414		16.9	15.8	
	Base Number (BN)				6.9	7.3	
	Visc @ 100°C	cSt	ASTM D445		12.4	▲ 11.3	







Laboratory Sample No.

Lab Number : 06105758 Unique Number: 10909255

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0109182 Received

: 01 Mar 2024 **Tested** : 05 Mar 2024 Diagnosed

: 05 Mar 2024 - Wes Davis Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

GFL Environmental - 822 - Springfield Hauling 2120 West Bennett Street Springfield, MO

US 65807 Contact: Dennis Moore dennis.moore@gflenv.com T: (417)403-3641

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)