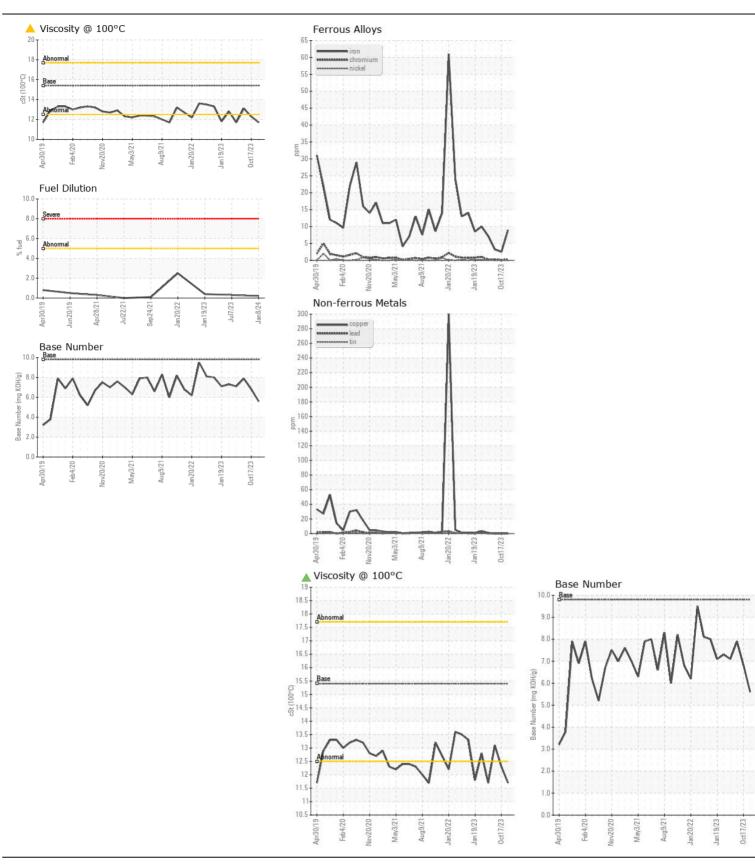
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL ATTENTION

Machine Id 2828

Component
Discal Fngine

Diesel Engine							
PETRO CANADA DURON SHP 15W40 (11 GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0074620	GFL0092473	
	Sample Date		Client Info		08 Jan 2024		18 Jul 2023
	Machine Age	hrs	Client Info		13460	13016	12317
	Oil Age	hrs	Client Info		487	43	90
	Filter Age	hrs	Client Info		487	43	90
	Oil Changed		Client Info		Changed	Not Changd	Changed
	Filter Changed		Client Info		Changed	Not Changd	Changed
	Sample Status				ATTENTION	ATTENTION	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	9	2	3
WEAT	Chromium	ppm	ASTM D5185m		<1	<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		2	1	<1
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m		<1	0	0
	Tin	ppm	ASTM D5185m		0	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		4	3	3
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	2	0
	Fuel	%	ASTM D3524		0.2	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	0/	WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.3	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	8.4	4.8	6.0
	Sulfation Silt	Abs/.1mm	*ASTM D7415		19.1 NONE	15.9	17.6 NONE
	Debris	scalar	*Visual *Visual	NONE	NONE	NONE NONE	NONE
	Sand/Dirt	scalar scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water			>0.2	NEG	NEG	NEG
			Vioudi			1420	1420
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	<1	4
	Boron	ppm	ASTM D5185m	0	2	5	6
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	58	56	62
	Manganese	ppm	ASTM D5185m	0	0	0	0
	Magnesium	ppm	ASTM D5185m	1010	818	762	925
	Calcium	ppm	ASTM D5185m		959	902	1092
	Phosphorus	ppm	ASTM D5185m		922	831	1036
	Zinc	ppm	ASTM D5185m		1109	1057	1244
	Sulfur	ppm	ASTM D5185m		2811	2738	3710
	Oxidation	Abs/.1mm	*ASTM D7414		15.1	11.0	13.4
	Base Number (BN)				5.6	6.8	7.9
	Visc @ 100°C	cSt	ASTM D445	15 /	▲ 11.7	12.3	13.1







Certificate L2367

Laboratory

Sample No. Lab Number **Unique Number**

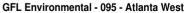
: 06057288 : 10823237

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : GFL0074620 Diagnosed

: 10 Jan 2024 : 14 Jan 2024 Diagnostician : Don Baldridge Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

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)



2699 Cochran Industrial Blvd Douglasville, GA US 30127-1332 Contact: Darrell Welch darrell.welch@gflenv.com T: (800)207-6618

Submitted By: Darrell Welch