WEAR
CONTAMINATION
FLUID CONDITION

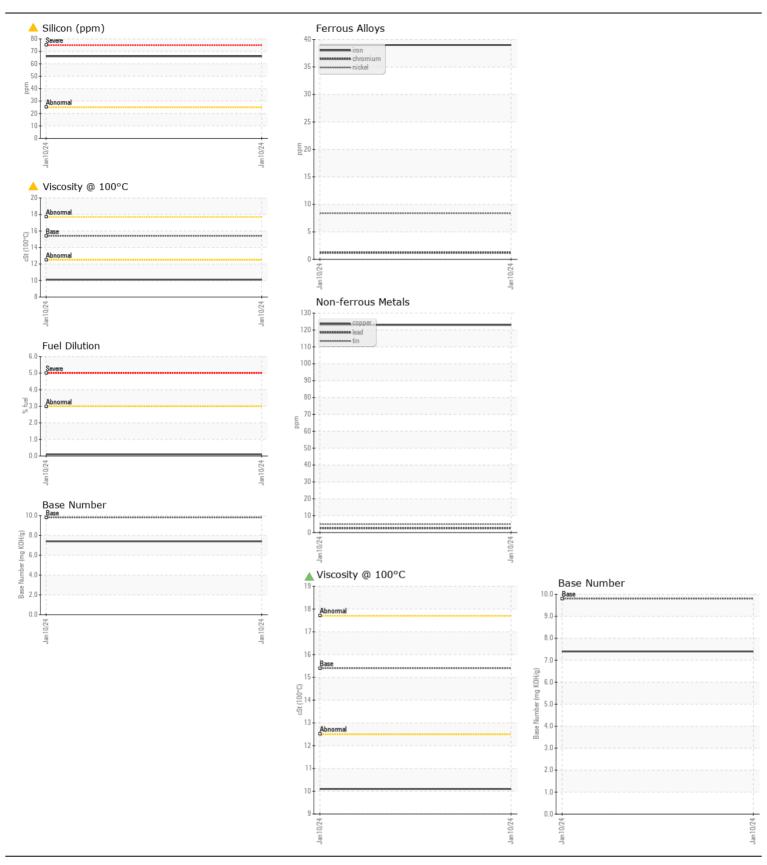
NORMAL
ABNORMAL
ATTENTION



Area
020
Machine Id
814030
Component
Diesel Engine

PETRO CANADA DURON SHP	15W40 (38 (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		GFL0103815		
	Sample Date		Client Info		10 Jan 2024		
	Machine Age	hrs	Client Info		612		
	Oil Age	hrs	Client Info		612		
	Filter Age	hrs	Client Info		612		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAD	Local		AOTM DEADE	400			
WEAR Metal levels are typical for a new component breaking in.	Iron	ppm	ASTM D5185m		39		
	Chromium	ppm	ASTM D5185m		1		
	Nickel	ppm	ASTM D5185m		8		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m		5		
	Lead	ppm	ASTM D5185m ASTM D5185m		3 123		
	Copper Tin	ppm	ASTM D5185m		5		
	Vanadium	ppm	ASTM D5185m	>10	ວ <1		
	White Metal	ppm scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
<u></u>			visuai		·····		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6 6		
Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material.	Potassium	ppm	ASTM D5185m	>20	4		
	Fuel	%	ASTM D3524	>3.0	0.1		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>4	0.4		
	Nitration	Abs/cm	*ASTM D7624	>20	9.8		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.5		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	nnm	ASTM D5185m		3		
TEGID CONDITION	Boron	ppm	ASTM D5185m	0	219		
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		
	Molybdenum	ppm	ASTM D5185m		124		
	Manganese	ppm	ASTM D5185m		5		
	Magnesium	ppm	ASTM D5185m		787		
	Calcium	ppm	ASTM D5185m		1608		
	Phosphorus	ppm	ASTM D5185m		771		
	Zinc	ppm	ASTM D5185m		946		
	Sulfur	ppm	ASTM D5185m		2649		
	Oxidation	Abs/.1mm	*ASTM D7414		22.0		
	Base Number (BN)		ASTM D2896		7.4		
	Vice @ 100°C		ASTM DAAS		A 10 1		

Visc @ 100°C cSt ASTM D445 15.4 **10.1**





Laboratory Sample No. Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 06058982

: GFL0103815 : 10830364

Recieved Diagnosed

: 12 Jan 2024 : 16 Jan 2024 Diagnostician : Don Baldridge **Test Package**: FLEET (Additional Tests: FuelDilution, PercentFuel) GFL Environmental - 020 - Alamance 703 East Gilbreath St

Graham, NC US 27253 Contact: Jorge Costa jorge.costa@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)

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