

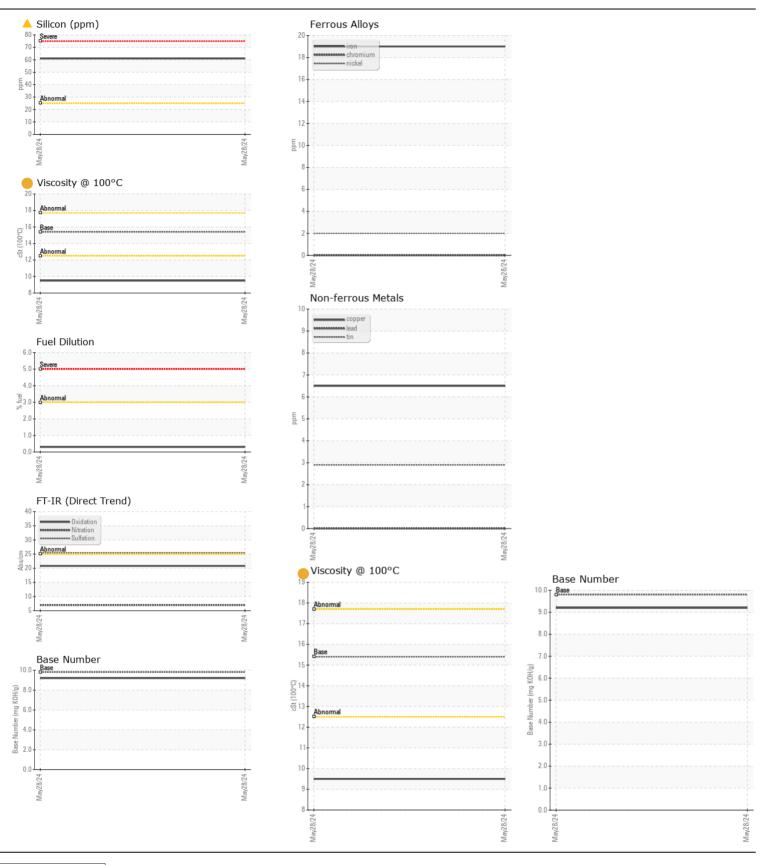
Machine Id
814002
Component
Diesel Engine

PETRO CANADA DURON SHP	15W40 (C	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	Ellillo / toll	GFL0099325		
	Sample Date		Client Info		28 May 2024		
	Machine Age	hrs	Client Info		148		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	>120	19		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	0		
	Nickel	ppm	ASTM D5185m	>5	2		
	Titanium	ppm	ASTM D5185m	>2	0		
	Silver	ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m	>20	6		
	Lead	ppm		>40	0		
	Copper	ppm	ASTM D5185m		6		
	Tin	ppm	ASTM D5185m	>15	3		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material.	Silicon	nnm	ASTM D5185m	× 25	▲ 61		
	Potassium	ppm	ASTM D5185m		2		
	Fuel	ppm %	ASTM D3163111		0.3		
	Water	/0	WC Method		NEG		
	Glycol		WC Method	<i>></i> 0.2	NEG		
	Soot %	%	*ASTM D7844	\4	0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	7.0		
	Sulfation	Abs/.1mm	*ASTM D7415		25.4		
	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	ppm	ASTM D5185m		2		
The oil viscosity is lower than normal. The BN result indicates that	Boron	ppm	ASTM D5185m		399		
there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		<1		
	Molybdenum	ppm	ASTM D5185m		126		
	Manganese	ppm	ASTM D5185m		4		
	Magnesium	ppm	ASTM D5185m		726		
	Calcium	ppm	ASTM D5185m		1411		
	Phosphorus	ppm	ASTM D5185m		730		
	Zinc	ppm		1270	827		
	Sulfur	ppm	ASTM D5185m		2747		
	Oxidation	Abs/.1mm	*ASTM D7414		20.8		
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.2		

9.5

ASTM D445 15.4

Visc @ 100°C cSt





Report Id: GFL844 [WUSCAR] 06196464 (Generated: 06/06/2024 02:22:07) Rev: 1

Laboratory Sample No.

Lab Number : 06196464

: GFL0099325 Unique Number : 11058587

Received **Tested** Diagnosed Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 31 May 2024 : 05 Jun 2024

: 05 Jun 2024 - Don Baldridge

GFL Environmental - 844 - Princeton Hauling 10129 Highway 62 West Princeton, KY US 42445 Contact: Destin Love dlove@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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