

WEAR NORMAL CONTAMINATION MARGINAL FLUID CONDITION ATTENTION

Machine Id **257000** Component **Diesel Engine** Fluid **PETRO CANADA DURON UHP 5W30 (--- GAL)**

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RECOMMENDATION		Test	UOM	Method	Limit/Abn	Current	History1	History2
		Sample Number		Client Info		GFL0124161		
The oil change at the time of sampling ha		Sample Date		Client Info		09 Jul 2024		
source of the lubricant being utilized for to	her corrective action is	Machine Age	mls	Client Info		162662		
recommended at this time. Please specify		Oil Age	mls	Client Info		0		
model with your next sample.		Filter Age	mls	Client Info		0		
		Oil Changed		Client Info		Changed		
		Filter Changed		Client Info		Changed		
		Sample Status				ATTENTION		
					400			
WEAR		Iron	ppm	ASTM D5185m		70		
All component wear rates are normal.		Chromium Nickel	ppm	ASTM D5185m		2		
			ppm	ASTM D5185m	>4	0		
		Titanium Silver	ppm	ASTM D5185m	. 0	0		
		Aluminum	ppm	ASTM D5185m ASTM D5185m		0 5		
		Lead	ppm	ASTM D5185m		5 0		
		Copper	ppm	ASTM D5185m		16		
		Tin	ppm ppm	ASTM D5185m		<1		
		Vanadium	ppm	ASTM D5185m	210	0		
		White Metal	scalar	*Visual	NONE	NONE		
		Yellow Metal	scalar	*Visual	NONE	NONE		
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CONTAMINATION		Silicon	ppm	ASTM D5185m	>25	17		
	contaminants were detected in	Potassium	ppm	ASTM D5185m	>20	<1		
the oil.		Fuel	%	ASTM D3524	>5	4 2.8		
		Water		WC Method	>0.2	NEG		
		Glycol		WC Method		NEG		
		Soot %	%	*ASTM D7844	>3	0.1		
		Nitration	Abs/cm	*ASTM D7624		11.7		
		Sulfation	Abs/.1mm	*ASTM D7415		26.6		
		Silt	scalar	*Visual	NONE	NONE		
		Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE			
		Appearance Odor	scalar	*Visual *Visual	NORML NORML	NORML		
			scalar scalar			NORML		
		Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION		Sodium	ppm	ASTM D5185m		5		
		Boron	ppm	ASTM D5185m	0	18		
Additive levels indicate the addition of a different brand, or type of oil.		Barium	ppm	ASTM D5185m		0		
The BN result indicates that there is suita oil. The condition of the oil is suitable for	, 3	Molybdenum	ppm	ASTM D5185m	64	71		
	ion number service.	Manganese	ppm	ASTM D5185m	0	4		
		Magnesium	ppm	ASTM D5185m	1160	6 554		
		Calcium	ppm	ASTM D5185m	820	984		
		Phosphorus	ppm	ASTM D5185m	1160	688		
						- 770		

Zinc

Sulfur

Oxidation

Visc @ 100°C cSt

773

2961

21.2 3.0

9.1

ASTM D5185m 1260

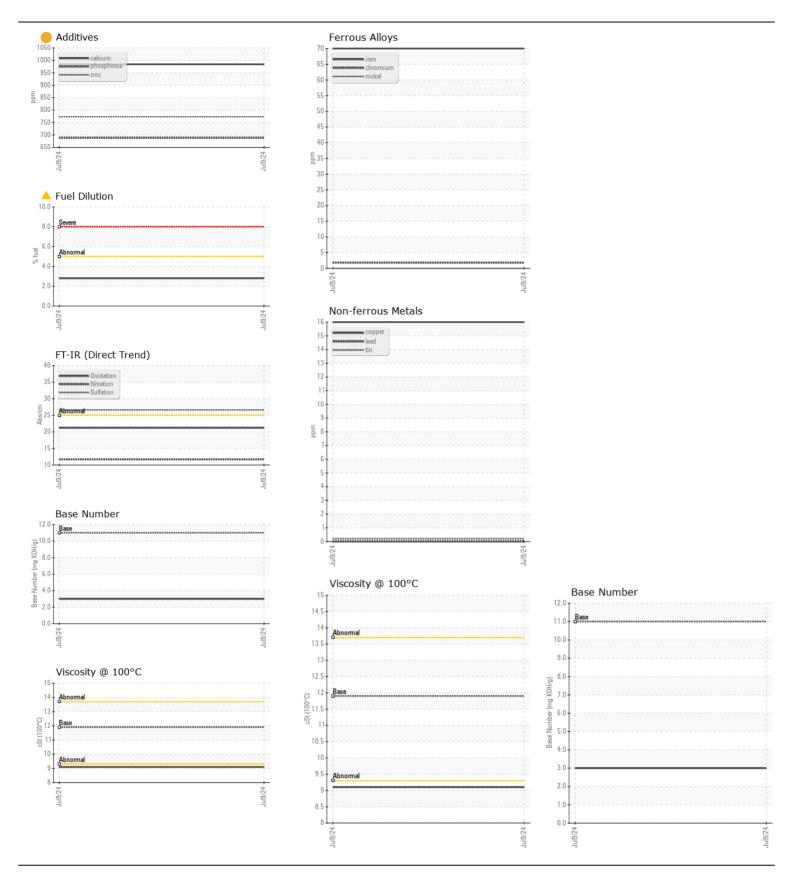
ASTM D445 11.9

ppm ASTM D5185m 3000

Abs/.1mm *ASTM D7414 >25

ppm

Base Number (BN) mg KOH/g ASTM D2896 11.0



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 633 - Grand Haven Sample No. : GFL0124161 Received 1680 Peach St : 15 Jul 2024 Lab Number : 06235500 Tested Whitehall, MI : 16 Jul 2024 Unique Number : 11124334 Diagnosed : 16 Jul 2024 - Wes Davis US 49461 Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel) Contact: Derek Kater Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dkater@gflenv.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Т: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: Derek Kater - GFL633 Page 2 of 2